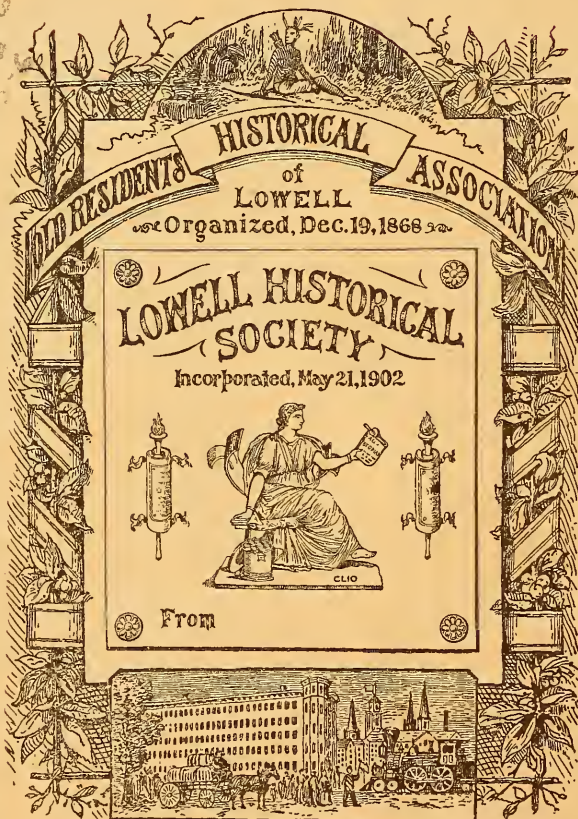


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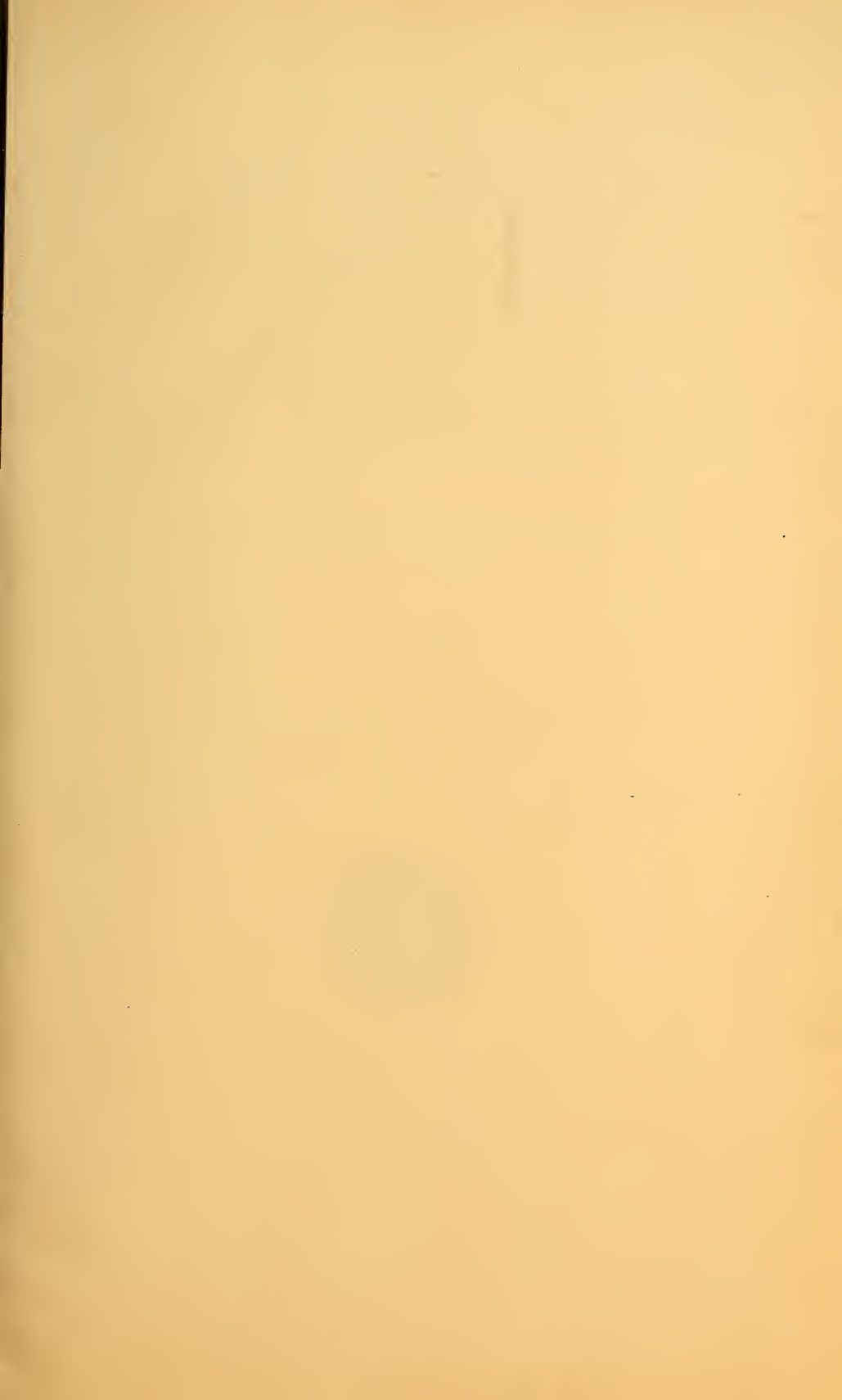






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CITY DOCUMENTS

—OF THE—

CITY OF LOWELL

MASSACHUSETTS

—FOR THE—

YEAR 1905-1906



LOWELL, MASS.

COURIER-CITIZEN COMPANY, PRINTERS

1906.

EXTRACT FROM THE ORDINANCES OF LOWELL.

CHAPTER VIII.—CITY DOCUMENTS.

SECTION 5. All City Documents (except the Rules and Regulations for the Government of the Police and Fire Departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECTION 6. All City Documents shall be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be placed in the City Library, and one copy in the library of the Middlesex Mechanics' Association, one copy shall be sent to each City of the Commonwealth, to the library of the Harvard College, the Public Library of Boston, the State Library, the Smithsonian Institute at Washington, and the Old Residents' Historical Association of Lowell.

CONTENTS.

1. Inaugural Address of His Honor, James B. Casey, Mayor, to the City Council, January, 1906.
2. Municipal Register, containing Rules and Orders of the City Council, and a list of the Government and Officers of the City of Lowell for 1906.
3. Eightieth Annual Report of the School Committee of Lowell, together with Forty-Second Annual Report of the Superintendent of Schools, 1905.
4. Auditor's Seventieth Annual Report of the Receipts and Expenditures of the City of Lowell, together with the Treasurer's Account, and the Account of the Commissioners of Sinking Fund, for the financial year ending December 31, 1905.
5. Thirty-Third Annual Report of the Lowell Water Board, and Reports of the Superintendent of Water Works and the City Engineer to the Water Board for 1905.
6. Report of the Committee on Appropriations, 1906.
7. Reports of the Births, Marriages and Deaths, 1905.
8. Report of the Board of Health, 1905.
9. Report of Superintendent of Streets, 1905.

10. Report of the Chief Engineer of the Fire Department, 1905.
11. Report of the Superintendent of Street Lights, 1905.
12. Report of Board of Police for the year ending May, 1906.
13. Park Commissioners, First Annual Report, December 31, 1905.
14. Report of the Trustees of the City Library for 1905.
15. Report of the City Solicitor for the year ending 1905-'06
16. List of Jurors for the year 1906.

SECOND INAUGURAL ADDRESS
OF
HON. JAMES B. CASEY

MAYOR OF LOWELL

1906



LOWELL, MASS.
LAMBERT PRINTING COMPANY
1906





INAUGURAL ADDRESS

... OF ...

HON. JAMES B. CASEY

GENTLEMEN OF THE CITY COUNCIL:—

Today you assume an obligation that in its discharge demands integrity of character, honesty of purpose, and a high conception of public duty. You are sworn to the faithful performance of a public trust, to safeguard the interests of your fellow citizens who have reposed in you a confidence that you should aim to prove worthy of. You have taken an oath of office that means much. If you remember it, and permit it to be your guidance on public questions, then you will do right. If you forget it, and disregard its sacredness, then you will do wrong, and fail in your duty as a public servant.

You were not elected to office for selfish interests. You were chosen because the people believed in you, and that the representations you made to conserve the interests of the city were sincere and heartfelt. Do not feel that you are in office to play politics to the detriment of the city's welfare. I assure you that if you start in on that assumption your public service will be short-lived.

Have the courage to say no when no should be said; and when you say no, mean it. Do not feel that public service

is to recline in a bed of roses. You may expect, though you are actuated by the best motives, to have your acts misrepresented, and oftentimes abusive treatment accorded you. Do not falter, however. You may confidently rely upon the fair-mindedness of the great majority of citizens to give recognition of faithful and conscientious public service.

Good government is demanded in American municipalities. It cannot be had unless men chosen to public office are animated by a sincere desire to do right by those whose confidence they enjoy. Endeavor to provide an honest, economical, and conservative administration. The prosperity of the community depends upon the conduct and management of public affairs, and the honesty and ability of public officials. The trust is an important one; do your best.

THE TAX RATE.

It is a matter of regret that a reduction could not have been made in the tax rate last year, but the slight increase was due to conditions every city is liable to experience. The state tax apportioned to Lowell was unusually large, and together with the loss of a large amount of personal property taxes, occasioned by the removal of several citizens to other places, offset the small increase in total city valuation and made a higher tax rate unavoidable.

The assessing of personal property and real estate is the key to the tax rate. Real estate made a gratifying gain during the past year, the increase amounting to \$437,655.00, but the personal valuation decreased \$407,844.00. Lowell's personal valuation is of a widely fluctuating character, and does

not stand a favorable comparison with other cities. Lowell has been going backward in this respect, and the work of the assessors' department seems powerless to stop this steady decrease. Undoubtedly much personal property escapes taxation.

With several new industries under way, and with a number of private dwellings under construction the real estate valuation for this year should show a substantial increase.

Care in the making of appropriations should be exercised. Department expenses are increasing each year, and it is becoming a serious problem to provide funds without resorting to the practice of borrowing money for current expenses. Last year the city council ignored repeated warnings regarding loan orders, and passed several, notwithstanding the veto power was exercised. I urge upon you the imperative necessity of keeping loan orders down to the lowest possible figure, as only in this way can the future financial standing of the city be improved. Be as careful with the city's money as you would with your own, and you will give an administration that will be satisfactory.

FINANCIAL STATEMENT.

Ordinary City Debt, Jan. 1, 1905.....	\$2,317,380.00	
Borrowed during year 1905.....	360,150.00	
	\$2,677,530.00	
Paid during the year 1905.....	267,621.90	
Total Ordinary City Debt, Dec. 31, 1905.....		12,409,908.10
Water Debt, Jan. 1, 1905.....	\$1,162,300.00	
Paid during the year.....	16,600.00	
Total Water Debt Dec. 31, 1905.....		\$1,145,700.00
Total City Debt Dec. 31, 1905.....		\$3,555,608.10

LIMIT OF INDEBTEDNESS

Total City Debt Dec. 31, 1905.....	\$3,555,608.10
Deduct Water Loans.....	\$1,145,700.00
Deduct Exemptions by Legislature.....	800,000.00
	\$1,945,700.00
City Debt as It Relates to Limit of Indebtedness	\$1,609,908.10
Limit of Municipal Debt for 1906, 2½ per cent. of Average Valuation for Last Three Years.....	\$1,788,317.23
City Debt Which Relates to Limit Dec. 31, 1905.....	\$1,609,908.10
Distance from Debt Limit Jan. 1, 1906.....	\$178,409.13

TOTAL CITY VALUATION.

Total City Valuation for the Year 1905	\$71,645,718.00
Divided as follows:—	
Personal Property	\$14,433,923.00
Real Estate	57,211,795.00
Assessed Polls 1905	26,087
Increase in Polls	532

SINKING FUNDS.

Full Value of All Sinking Funds Jan. 1, 1906.....	\$703,793.46
Full Value of All Sinking Funds Jan. 1, 1905	650,447.62
Increase During the Year 1905.....	\$53,345.84
Value of Water Loan Sinking Funds Jan. 1, 1906.....	\$437,885.13
Value of Water Loan Sinking Funds Jan. 1, 1905	406,430.22
Increase During the Year	\$31,454.91
Value of All Other Sinking Funds Jan. 1, 1906	\$265,908.33
Value of All Other Sinking Funds Jan. 1, 1905	244,017.40
Increase During the Year.....	\$21,890.93
Total Increase as Above	\$53,345.84

PUBLIC HALL.

By a large and decisive majority the citizens have expressed themselves in favor of building a public hall. In accordance with the desire of the people it is obligatory

upon the city council to take immediate steps to build the hall. It is a question that calls for careful consideration, and cannot be treated with indifference. There is a sum of \$50,038.00 available in the building fund to be used in the construction of a new hall. The selection of a site is most important. If a satisfactory agreement is reached between the city and the Locks and Canals Corporation relative to the old site it would seem to be most available. If, however, the Locks and Canals Corporation shows a tendency to present exorbitant demands, then negotiations should be broken at once and a site selected elsewhere.

The great evil in the management of Huntington hall was the abuse of the free list. It was an evil that had become intolerable, and in consequence of the indiscriminate free use of the hall it was maintained at an annual loss of from four to six thousand dollars. We should profit by the experience of the past and correct this evil at the start. The adoption of an ordinance limiting the free use of the hall to public meetings of citizens would make the hall self-supporting, and be fair to all classes.

I would recommend that a commission of three citizens be appointed to supervise the construction of this hall, or to work in conjunction with a committee of the city council. The hall should be built within a given appropriation, which can be done if care is exercised in the preparation of plans, and awards of contracts are based on the appropriation voted by the city council.

WATER DEPARTMENT.

A department that requires the strictest supervision by the city council is the water department. This department

is created by ordinance, and can be abolished by vote of the city council. A board that considers itself so far removed from the body which created it, and from the people whose servants they are, has reached a degree of autocratic assumption of authority that is decidedly dangerous for the public good.

While it is possible that you may be considered as meddling and impertinent should you decide to look into the conduct of affairs in this department, still you should not hesitate if, in your judgment, you consider it necessary.

I would urge the committee on appropriations to give careful consideration to the advisability of an annual appropriation being voted this department from its revenues. At present the city council exercises no supervision over the finances of the water department. If the department can earn a surplus in excess of its expenditures it is due the citizens that the water rates be reduced.

UNKETS.

Again I must call the attention of the city council to the necessity of an ordinance for the regulation of heads of departments, boards, and commissions voting themselves junkets at the city's expense. A committee of the city council is criticised should it leave the city to secure information upon special subjects, yet no attention is paid to junkets by heads of departments.

I would recommend that discretionary power be placed in the mayor relative to heads of departments, boards, and commissions, the same as is exercised towards committees of the city council.

BUILDING ORDINANCE.

Again your attention must be called to the necessity for a thorough and up-to-date building ordinance. We are governed by an ordinance that is not applicable to a proper supervision of modern construction. Last year an architect was employed by the city, and an ordinance that has much merit was drafted. The city council failed to adopt it. The superintendent of public buildings is powerless, in many instances, to correct evils that exist in the construction of buildings.

I recommend that the city council give immediate consideration to the provisions of this proposed ordinance, and if it meets with your approval, that it be adopted at once.

BAND CONCERTS.

Municipal band concerts are a form of public amusement that gives general satisfaction for a small expenditure. I recommend that the sum of \$700 be set aside at the beginning of the year for concerts during the summer months. The concerts should be held on the North and South commons, both places being accessible to the greatest number of people.

BOARD OF CHARITY.

A recommendation in last year's inaugural that the board of overseers of the poor be abolished, and a board of charity created instead, has been approved by the people. This board of charities is endowed with exceptional power, and undoubtedly will revolutionize the methods of the pau-

per department. That a great saving can be effected, that the worthy poor will be better taken care of, and that graft and abuses now existing will be remedied is expected from the members of the new board.

Too much politics has heretofore prevailed in the management of this department. Little effort for a curtailment of expenditures has been made. If there is a department which should be removed from political influence it is this department, and it is well to observe that the citizens have at last realized the necessity for a change in the conduct of affairs. Any municipality whose pauper department costs more than one dollar per capita, per inhabitant, is being overburdened, and I firmly believe that the total cost of the pauper department this year, under the board of charities, will be less than \$100,000. This decrease in expenditure will not be followed by any hardship upon the worthy poor. Last year's total expenditures was \$117,417.99. In 1904 it was \$124,828.04.

The issuance of cash orders is a great evil and should be corrected. The amount expended on cash orders in 1905 was \$5,667.39; in 1904, \$4,573.03; and in 1903, \$4,446.73. All pauper officials disapprove the giving of cash orders, except in extreme cases. The giving of aid, while supposed to be a relief to a family, is oftentimes a detriment. When you remove from the head of the family any incentive towards self-support an injury is not only worked upon such family, but to the community as well.

The result of a man's efforts can never be fully realized until put to the test. In old age and sickness every self-respecting citizen is willing and anxious to alleviate distress, but the giving of aid to chronic recipients whose only object in life is to get something for nothing is a condition the

board of charities will be called upon to treat differently than heretofore.

Another abuse of the pauper department has been the tendency of a number of idlers to hibernate in the almshouse. Admission should be denied this class.

The ambulance service is altogether too costly. Last year the amount expended was \$7,414.97. The board of charities can effect a saving in this department without impairing the efficiency of the service.

The people of Lowell expect good results with the pauper department under the control of a board of charities, and with men of integrity of character and honesty of purpose serving on the board they will not be disappointed.

NEW INDUSTRIES.

The prosperity of the community is determined by its industrial growth. To make progress a city must be constantly adding new industries which furnish additional employment to citizens. A diversity of industries is most desirable. Our city has made steady progress along industrial lines. Last year an industrial boom was experienced that did much good to the community, and can be experienced again if the right kind of energy and public spirit are manifested. Business has been exceptionally good, our people are happy and contented, and a strong feeling of confidence in the future advancement of Lowell is apparent on all sides. This is a most desirable condition and should be encouraged.

Every new enterprise will add to the taxable property of the city, open a wider field for the employment of labor, and place more money in circulation. Lowell is a good city

in which to live. It is a good city in which to do business. No enterprise, however small, should be ignored, but encouraged to locate here. The city council can do much good work in this respect, and should be active in promoting the industrial growth of the city. I might add that the greatest incentive for the location of new industries is a well-governed city.

FIRE DEPARTMENT.

Upon the efficiency of the fire department depends the safety of life and security of property. Too much care cannot be exercised to keep this department up-to-date and equipped to combat large fires. It is my firm belief that this department is not maintained at as high a standard as it should be. There is a tendency for easy-going methods that should not exist. There is too much of a trust-to-luck system in vogue rather than than well-directed systematic effort.

Our city is growing and the department should grow with it. Of late years several down-town blocks have been partially converted into sleeping apartments, and are inhabited by many persons at night. It is essential that the best fire protection possible be had. The department responds to alarms of fire not equipped with fire-nets and other paraphernalia necessary to successfully handle big fires. This condition should be remedied at once.

I disapprove of appointment to positions in this department of men well-advanced in years. Active, energetic men are needed; men who can make their presence felt and do

good work at a fire. Fire drills that would secure better discipline and more effective results at fires should be inaugurated.

I would recommend that the committee on fire department give careful consideration to the present condition of the fire department, with the view of increasing its efficiency and providing equipments that will modernize the department.

STREET DEPARTMENT.

The department of streets and sewers has accomplished a large amount of work during the year just ended, and credit is due its superintendent for the thorough and economical manner in which he has conducted this important department.

I again recommend, for the paving of heavily-traveled streets, the use of granite blocks of uniform size, laid on a concrete base, and filled in with pitch tar and crushed stone. This kind of paving seems to be the most desirable and permanent that can be laid. It is a paving that can be laid by our own city employees without the importation of outside labor.

I would also recommend, in consequence of the extensive use of concrete for sidewalks, a municipal concrete plant. It can be secured for about \$1,000 and will save the city a large sum annually.

In the line of new work macadamizing is always an important feature, as the demand for macadamized streets is constantly increasing. Twenty new streets were macadamized in different sections of the city last year, aggregating 58,977 square yards, at a cost of \$35,031.65. In connection with

work of this nature it seems proper, at this time, to call attention to the necessity of purchasing a new ledge. The Fletcher street ledge is exhausted, and the Carney ledge also, and to meet the demand for macadam it was found necessary to purchase a large amount of trap rock, which is much more costly than the stone that can be taken from ledges available in this vicinity, and it is hoped that the proper committee will give the ledge question its early consideration.

The sum of \$15,019.28 was expended for bridges, the chief item being for Central bridge, which was painted and paved. The bridge is now in first-class condition.

The removal of snow was a large expense last year, \$35,000 being expended for this work. For cleaning of streets \$41,000 was expended.

Twenty-nine new sewers and fifty-seven catch basins were built during the year, a total length of 18,000 feet. The Stromquist avenue and Bowden street sewers were finished. The Stromquist avenue sewer was begun in 1904. These sewers are a section of a trunk sewer beginning at Moore street and ending at Nelson avenue. This trunk sewer was begun in 1901, its total length being 4,439 feet, and its cost \$85,800.47.

For several years the residents of the Oaklands district have endeavored to secure a system of sewers to drain that section, and last year work was commenced by building the Rogers street sewer, just completed, and the Wentworth avenue sewer, now under construction.

TUBERCULOSIS EXHIBIT.

Medical research in recent years has transferred the most fatal of all diseases, tuberculosis, into a social and economic

problem which enjoins a most important duty upon those entrusted with the health, property, and well-being of cities.

The Massachusetts legislature appropriated \$2,000 to provide an exhibit illustrative of the best methods and means for the prevention and cure of tuberculosis. Following the example set at Paris, Berlin, London, and New York, the state board of health has collected an exhibit at Boston which is now open, and is receiving much public attention and commendation. By means of charts, models, photographs, etc., the different methods employed in the prevention of the spread of the disease from one person to another are plainly illustrated, as well as the favorable results obtained in curing the disease by means of home treatment.

Lowell offers a field for such work as this exhibit suggests. The city is well situated in close connection with high, healthy surroundings, where the greatest opportunities prevail for obtaining the best results in the prevention and cure of tuberculosis. This exhibit shows how these advantages may best be secured. Humanity, as well as social economy, suggests the wisdom of placing these means within the reach of all. An effort should be made to secure this exhibit for Lowell, and I would recommend an appropriation for that purpose.

SCHOOL DEPARTMENT

The school department is by general consent the most important department of the city. It is also the most expensive. There is no denying that the expenses of the school department have increased faster in recent years than have

the pupils. In the last ten years pupils have increased from 9,516 to 10,502. The expenses in 1895 were \$245,706.77. In 1905 the total appropriation was \$311,000. In fact, the department spent last year \$5,000 more than was asked at the beginning of the year.

It may be of interest to note that the increased expenses for the department have been mainly in salaries, and that the increase in salaries has been due to two causes, one an over-proportionate increase in the number of teachers in the High school from 20 to 36, with higher pay for the men teachers required for the manual training and the commercial departments. High school pupils have increased from 633 to 890, and High school salaries from \$19,961 to \$34,833; as a partial offset to which the school earned, in 1904, \$6,086 in tuition.

The sum of \$114,000 was borrowed this year to maintain the schools. An appropriation of \$197,000 was given the department at the beginning of the year, making a total appropriation of \$311,000. On school houses the sum of \$74,000 was expended, \$8,000 of which was borrowed. For new schools the sum of \$67,600 was borrowed, so that the total amount borrowed for school purposes was \$189,600. Including the regular appropriation of \$263,000 a grand total of \$452,600 was expended for school purposes last year.

If money appropriated for schools is being spent judiciously the taxpayers will find no fault. If it is not, then fair criticism may be directed against this department. I would recommend that the committee on appropriations give careful consideration to the appropriations for schools when the department estimates are presented.

STREET LIGHTING.

The lighting of our streets is an important matter. The city of Lowell has been paying for street lights a price as high as any city in the country, in fact Lowell ranks among the highest. Contracting companies have realized enormous profits, profits that can be saved to the taxpayers by well directed efforts on the part of public officials.

The gas contract expired the past year and was renewed, after several months of controversy, on an all night and every night schedule at a cost per lamp of \$22.75, twenty-five cents less than the contract price on the old village schedule. The contracting company, however, would not have hesitated to sign the contract at \$28.50 per lamp per year, a difference of \$5.75 per lamp per year, if permitted to do so.

Gas light is not the only illuminant that the city has been paying a fancy price for. Unquestionably the city is paying an exorbitant price for electric lighting. The contract for electric lighting was broken in 1902, before its expiration, and renewed for a period of six years at a cost of \$120.45 per arc light. This price, to my mind, is decidedly excessive, especially when comparison is made with other cities where electric lights are installed at an average cost of between \$85 and \$90. It is possible that the candle power varies, but candle power is a very elastic term.

I would recommend that a committee be appointed to make a comprehensive study of street lighting in this and other cities. I believe that the result of such research will effect a saving of thousands of dollars on renewals of contracts for street lighting. The city has been taking things for granted too much in the past when contracts for street lighting expired. I know of no more important work in which a

committee of the city council can engage with consequent benefit to the city than, the question of street lighting.

CONCLUSION.

In conclusion, gentlemen of the city council, I would urge upon you to be vigilant at all times in the discharge of your duties. Courageously face the problems that will confront you, and decide your position honestly and fearlessly.

As chief executive of the city I will earnestly co-operate with you in an endeavor to give to the citizens of Lowell a clean and progressive government.

Let it be said of you when your term of office is ended that your every effort was for the good of the community, and that your official acts served to advance the welfare of your beloved city.



MUNICIPAL REGISTER
CONTAINING
RULES AND ORDERS
OF THE
CITY COUNCIL,
AND A LIST OF THE
GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL
1906.



LOWELL, MASS:
THE LIBBY PRINTING COMPANY,
1906.

JOINT RULES AND ORDERS OF THE CITY COUNCIL

1. In the month of January, and not later than the second regular meeting after organization of each branch of the City Council, joint standing committees shall be appointed as follows :

A COMMITTEE ON CLAIMS.

A COMMITTEE ON EDUCATION.

A COMMITTEE ON FIRE DEPARTMENT.

A COMMITTEE ON LANDS AND BUILDINGS.

A COMMITTEE ON MILITARY AFFAIRS.

A COMMITTEE ON ORDINANCES AND LEGISLATION.

A COMMITTEE ON PRINTING.

A COMMITTEE ON STREETS.

A COMMITTEE ON COMMONS.

A COMMITTEE ON INDUSTRIES.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on

Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman; on the Committee on Finance, the member first named in the Common Council shall be chairman; and in all joint special committees, the member first named in the board where the business originates shall be chairman, and shall call the committee together.

4. Reports of committees shall be made to the board first meeting after such reports are prepared and signed.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee, (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed ordinances; the enacting clause of which shall be—Be it ordained by the

City Council of the City of Lowell, as follows: In all votes by which either or both branches of the City Council express anything by command, the form of expression shall be, Ordered, and whenever either or both branches express opinions, principles, facts or purposes, the form shall be, Resolved.

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to the Joint Standing Committee on Ordinances and Legislation, and then sent to the other branch for concurrence. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceedings shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council, and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen and sent to the Mayor for his approval.

9. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day. Each Board shall transmit to the other all papers on which any ordinance, joint resolution, or order shall be founded; and all papers on their passage between the two boards, shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officer. If papers come before either board which have been duly acted upon in the other board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

10. All enrolled ordinances shall be written in a fair and legible hand, or typewritten, provided a permanent record ribbon is used, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

11. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the clerk of the Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the Board of Aldermen, and be presented to the Mayor for his signature if he approved the original.

12. Joint orders shall require but one reading, and when adopted, shall be sent to the Mayor for his approval, except where they relate to a question of a convention of the two branches, or the election of any officer.

13. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

14. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

15. All reports and other papers submitted to the City Council shall be written in a fair hand, or typewritten, provided a permanent record ribbon is used, without endorsement, except in case of the introduction of an order or resolution. In such a case the member introducing an order or resolution shall subscribe his name at the bottom of the back of the same. All other endorsements upon the back of papers shall be made by the clerk; and the clerks of the boards respectively, shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

16. No business shall be transacted by the City Council in convention, except such as shall have been previously agreed on, unless by unanimous consent.

17. In balloting in joint convention, blanks shall be reported but not counted as votes.

18. When both boards are in session at the same time, neither shall adjourn without giving notice to the other of its intention.

19. All petitions, reports, or other papers of whatever description, relating to business requiring the concurrent action of both boards of the City Council, shall be submitted by committees to the clerk of each board at least twenty-four hours before the time of meeting of either board, and the clerk of each board shall prepare a brief synopsis of all matters to be acted upon, and place the same on the desk of each member of the City Council prior to the hour of opening the meeting. No reports or orders not previously furnished as herein described, shall be considered in either branch unless two-thirds of the members present consent thereto.

20. These rules may be suspended for a specific purpose, or amended, whenever twenty-four members of a joint convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and eighteen members of the Common Council.

21. No resolution for the extension and laying out of any street or public highway shall be passed to a second reading by either branch of the City Council until the City

Civil Engineer shall certify to the council that said street or highway is fully completed, and graded to the grades named in the resolution, without expense to the city.

22. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or the appropriation of the public moneys, or involving any debt or liability, and such vote shall be entered upon the records of each branch of the City Council.

23. Less than a quorum of each branch of the City Council may adjourn to a fixed day earlier than the regular meeting, and shall have power to compel the attendance of all absent members in such manner as the City Council may by ordinance provide.

24. In the absence of rules governing both boards of the City Council, Cushing's Manual shall decide the point.

RULES AND ORDERS OF THE BOARD OF ALDERMEN

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows:

First.—At all regular meetings the journal of the last regular meeting and all intervening meetings of the board shall be approved without reading, unless the reading be called for by some member of the board.

Second.—Petitions and similar papers.

Third.—Appointments, elections, etc.

Fourth.—New business, which, unless otherwise ordered, will take its place at the foot of Orders of the Day.

Fifth.—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common

Council and such matters as have been introduced as new business. By a vote of six members, any matter in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote; and on demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration, to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration, to be acted upon at the next meeting, which latter motion shall have priority, if made before the motion first mentioned shall have been decided. Provided, however, that no motion of reconsideration made by a member voting with the minority shall be received on any subsid-

iary or incidental question. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read, or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January the following committees shall be appointed :

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON ELECTRIC WIRES.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

A COMMITTEE ON STATE AID.

The committees on Licenses, on Sewers, and on Electric

Wires shall consist of three members each ; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission, if his presence is necessary to make a quorum.

10. The clerk shall prepare, for the use of the board, a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee the question shall first be upon a standing committee of the board, then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two-thirds of the members present may so vote ; but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All nominations shall lie on the table three days at least before action thereon by the board.

14. All papers, of whatever description, which may require action by the board, shall be presented to the City Clerk not later than the hour of noon on the day of each regular meeting. Petitions, reports and other papers, presented after that hour on such day, will not be considered until the next meeting.

RULES AND ORDERS OF THE COMMON COUNCIL

1. Upon the arrival of the hour fixed upon for the meeting, the President shall call for order, and within ten minutes (or sooner, if a quorum be present,) cause the clerk to call the roll and report to him the number present, and the number absent, which information he shall, in turn, announce to the body. In the absence of the President, the eldest senior member shall call to order and preside until a President pro tempore is chosen.

2. The President shall preserve order and decorum. He may speak to points of order in preference to other members, rising for that purpose. He shall decide questions of order, subject to appeal, but shall entertain no discussion on the merits of his ruling.

3. While addressing the body the President shall stand, but he may read or put questions while sitting.

4. The President shall declare all votes, and, if a vote be doubted, he shall, without permitting further debate require the members voting in the affirmative to rise and re-

main standing until they are counted by the clerk ; then he shall require the members voting in the negative to rise and remain standing until they are counted by the clerk, and he shall thereupon, on information from said clerk, declare the result.

5. The President may call any member to the chair, but such substitution shall not extend beyond an adjournment, and when out of the chair he may express his opinion on any subject under debate, but he must not resume the chair while the same question is pending.

6. All questions shall be propounded by the President in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the body, unless the mover, (no objection being offered) withdraws it before a decision or amendment.

8. A motion to adjourn shall always be in order, unless the body is engaged in voting.

9. The previous question shall be in this form : " Shall the main question be now put ? " It shall only be admitted when demanded by a majority of members present, and until it is decided, shall preclude all amendment and debate of the main question.

10. The yeas and nays shall be taken on any question upon demand of one-third of the members present.

11. When two or more members rise at the same time, the President shall name the member who shall speak first.

12. Every motion shall be reduced to writing, if the President or any member requires it.

13. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition, nor shall a vote on any subsidiary or incidental motion be reconsidered, except a motion to that effect be made and be acted upon at the same meeting at which the vote was decided.

14. When any member is about to speak in debate, or deliver any matter to the body, he shall rise and respectfully address the presiding officer, confine himself to the question, and avoid personality.

15. During debate no member shall be mentioned by name, but he may be described by such other designation as may be intelligible and respectful.

16. No member, while speaking, shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgresses the rules of the body, the President shall, or any member may, call him to order; in which case the member so called to order shall immediately be seated until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without leave of the body.

17. No member shall speak more than twice to the same question without obtaining leave of the body.

18. Whilst the President is speaking, no member shall pass between him and the body, and while a member is speaking no person shall pass between him and the President; nor shall any person rise in front of a speaking member except to raise a point of order.

19. When a question has been decided, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting; which latter motion shall have priority, if made before the motion first mentioned shall have been decided. No vote or question shall be twice reconsidered.

20. Every member present when a question is put shall unless, for specific reasons, excused by a majority of the

members, give his vote. But in the election of any city officer, he may decline to vote, as provided in Section 7, Chapter 26 of the Revised Laws. And no member shall leave without permission, if his presence is necessary to make a quorum.

21. No motion or proposition, on a subject different from that under consideration, shall be admitted under color of an amendment.

22. All reports may be committed or recommitted at the pleasure of the body.

23. The division of a question may be called for when the sense will admit of it.

24. A majority vote shall be necessary to sustain objection to the reading of a paper.

25. No standing order shall be suspended, except by a two-thirds vote of the members present ; nor shall any rule or order governing the body be repealed or amended without one day's notice, nor unless fourteen members concur therein.

26. The order of business shall be as follows :

1—Roll call.

2—Reading of records.

- 3—Papers from the Board of Aldermen.
- 4—Communications and reports from city officials.
- 5—Presentation of petitions, remonstrances and memorials.
- 6—Reports of Committees.
- 7—Unfinished business of preceeding meetings.
- 8—Motions, orders or resolutions.

The above order of business shall not be departed from, except by vote of a majority of the members present, but the body may appoint a committee of two to approve the records of the clerk during the year, and if such a committee is appointed, the reading of the records shall be omitted, unless called for by one-third of the members present.

27. The seats of the Common Council shall be numbered and determined by lot, and no member shall change his seat but by permission of the President.

28. All committees, except such as the body determines to select by ballot, or such as may be required by statute to be voted for, shall be appointed by the President, and the political minority shall be represented by at least one member.

29. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

30. All memorials and other papers addressed to the body shall be presented by the President, or by a member in his place, who shall explain the subject thereof; and they shall be taken up in the order in which they were presented, unless the body shall otherwise direct.

31. Standing committees shall be appointed on the following subjects :

On Second Reading of Bills and Ordinances.

On Enrollment.

On Elections and Returns.

32. No committee shall sit during a session of the body, without special leave, except the Committee on the Second Reading of Bills and Ordinances and the Committee on Enrollment.

33. These rules shall be observed in the Committee of the Whole, so far as they are applicable, except Rule 17.

34. When a committee is nominated by the chair, the person first named shall be chairman. In the election of committees, except on finance, when a chairman is not specially chosen, the person having the highest number of votes

shall act as chairman ; and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

35. All committees shall consist of three members, unless otherwise specially provided for ; and no report shall be received from any committee unless agreed to in committee actually assembled ; and reports shall be in writing, unless otherwise ordered.

36. It shall be the duty of every committee to whom any subject may be specially referred, to report thereon within five weeks, unless further time is previously asked for and granted.

37. Members of the body may attend any meeting of any of its committees, but shall not vote thereat.

38. All ordinances and resolutions shall have two several readings before they shall be finally passed. See Joint Rules 7 and 8.

39. All ordinances after being read a second time shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which the question shall be on passing the same to be enrolled.

40. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

41. Any member offering a resolution or order shall write his name on the bottom of the back of such paper.

42. All city officers shall be voted for in accordance with Section 7, Chapter 26, of the Revised Laws.

43. The clerk shall keep brief minutes of the votes and proceedings of the body, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles or by a brief description of their purport.

44. The clerk shall keep the record of committees that may require that service; and on the appointment of every standing committee, a book for records shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of members of the City Council.

45. With the exception of an order for a joint convention, any joint order or resolution originating in the Common Council, shall be copied, and shall, previous to the hour for calling the meeting to order, be posted by the clerk, in some prominent place in the Common Council chamber or coat room, where it may be open to the inspection of members.

46. All orders, resolutions, reports, petitions or other papers, (except communications) requiring concurrent action,

or action by this body only, shall be filed by members in the office of the City Clerk at least twenty-four hours before the time set for the meeting of the body ; also all reports or papers from committees.

47. No paper entered in violation of the preceding rule shall be considered except by unanimous consent.

48. The clerk shall, previous to each regular or special meeting, prepare, in the sequence of the order of business, a brief synopsis of all matters to be acted upon, and place, or cause to be placed, on the desk of each member, a copy of the same, prior to the hour designated for calling such meeting to order.

49. "Cushing's Manual" shall be authority on all questions of debate or parliamentary usage, when the same does not conflict with the rules and orders of this body.

50. A copy of "Cushing's Manual" shall, at all times, during the sessions of this body, be on the desk of the President.

CITY COUNCIL AND COMMITTEES FOR 1906.

MAYOR

JAMES B. CASEY.....87 Summer Street

ALDERMEN

OTIS ALLEN.....302 Nesmith Street

WILLIAM H. BROWN.....172 Branch Street

DANIEL COSGROVE.....492 Gorham Street

BURTON H. CROSBY.....III Moore Street

JOHN W. DALY.....76 Andrews Street

WILLIAM H. DODGE.....28 South Walker Street

WILLIAM J. HAYES.....61 Coranell Avenue

ANDREW LIVINGSTON.....38 Fourth Avenue

JAMES F. WALKER.....43 Seventh Street

JAMES F. WALKER.....Chairman

GIRARD P. DADMAN.....Clerk

COMMON COUNCILMEN**Ward One**

FRANK R. BAILEY.....3 Brookings Street
ALFRED H. JOHNSON.....208 French Street
JOHN F. McNAMARA.....87 Third Street

Ward Two

JOHN J. CONNORS.....3 Sullivan Court, Fenwick Street
MAURICE F. FLYNN (died May 14.).....213 Fletcher Street
MURTHY LYONS.....2 Lyons Yard, Cross Street

Ward Three

EDMUND J. CHENEY.....19 Grove Street
HARRY H. J. READ.....347 Westford Street
WESLEY M. WILDER.....6 Coral Street

Ward Four

HENRY F. CARR.....1-592 Gorham Street
DENNIS J. DONOHUE.....669 Central Street
JOHN P. MAHONEY 12 New Street

Ward Five

JEREMIAH F. CONNORS 21 Richmond Street
WILLIAM E. CURTIN.....99 Concord Street
JOSEPH H. MELLEN.....51 Wamesit Street

Ward Six

JOHN H. BLAKE.....129 Fulton Street
EDWIN M. KITTREDGE 179 Tenth Street
JAMES H. LEIGHTON.....41 Sixth Street

Ward Seven

J. OMER ALLARD 994 Moody Street
LEON MARCOTTE 155 Cross Street
WILLIAM G. MCINTYRE.....19 Lombard Street

Ward Eight

CHARLES N. LEACH.....1358 Middlesex Street
GEORGE H. MOODY.....23 South Canton Street
GEORGE W. PETERSON.....37 South Loring Street

Ward Nine

CHARLES H. CLOUGH.....52 Birch Street
FREDERICK A. EVANS.....30 Parkview Avenue
DANIEL E. HOGAN.....30 Fort Hill Avenue
HARRY H. J. READ.....President
FRANK M. DOWLING.....Clerk

MEETINGS OF THE CITY COUNCIL

The regular meetings of both branches of the City Council are held at the City Hall as follows :

ALDERMEN

Second and fourth Tuesdays in each Month except August

January.....	2 and 16	July.....	10 and 24
February	13 and 27	September.....	11 and 25
March.....	13 and 27	October.....	9 and 23
April.....	10 and 24	November.....	13 and 27
May	8 and 22	December.....	11 and
June.....	12 and 26		

At 8 P. M.

COUNCILMEN

First and third Tuesdays in each Month except August.

January.....	2 and 16	July.....	3 and 17
February	6 and 20	September.....	4 and 18
March.....	6 and 20	October.....	2 and 16
April.....	3 and 17	November	6 and 20
May.....	1 and 15	December	4 and 18
June.....	5 and 19		

At 8 P. M.

Joint Standings Committees of the City Council

APPROPRIATIONS—Aldermen Walker, Brown and Dodge; Councilmen Read, Evans, Peterson and J. F. Connors.

ACCOUNTS—Alderman Crosby; Councilmen Hogan and Cheney.

CLAIMS—Aldermen Hayes and Livingston; Councilmen Wilder, McNamara and Mellen.

EDUCATION—Aldermen Dodge and Livingston; Councilmen Blake, Leach and Flynn.

FINANCE—Councilman Moody (chairman), Mayor James B. Casey, Alderman Dodge; Councilmen J. F. Connors and Leighton.

FIRE REPARTMENT—Aldermen Walker and Allen; Councilmen Moody, Allard and Hogan.

INDUSTRIES—Aldermen Dodge and Brown; Councilmen Evans, McNamara and Carr.

LANDS AND BUILDINGS—Aldermen Crosby and Livingston; Councilmen Leighton, Marcotte and Lyons.

MILITARY AFFAIRS—Aldermen Brown and Dodge; Councilmen Cheney, Clough and J. J. Connors.

ORDINANCES AND LEGISLATION—Aldermen Crosby and Dodge; Councilmen Leighton, Leach and Carr.

PRINTING—Aldermen Hayes and Brown; Councilmen Moody, Cheney and Curtin.

STREETS—Aldermen Allen and Hayes; Councilmen Clough, Donohue, Johnson, Mahoney and Kittredge.

Standing Committees of the Board of Aldermen

SEWERS—Aldermen Dodge, Livingston and Brown.

STATE AID—Aldermen Brown and Livingston.

LIGHTING STREETS—Aldermen Crosby and Allen.

ELECTRIC WIRES—Aldermen Allen, Walker and Hayes.

LICENSES—Aldermen Hayes and Brown.

WEIGHTS AND MEASURES—Aldermen Brown and Livingston.

BILLS IN SECOND READING—Aldermen Walker and Hayes.

ENROLLMENT—Aldermen Dodge and Crosby.

ELECTIONS AND RETURNS—Aldermen Dodge and Brown.

Standing Committees of the Common Council

BILLS IN SECOND READING—Councilmen Peterson, Wilder and Donohue.

ENROLLMENT—Councilmen Marcotte, McIntyre and Lyons.

ELECTIONS AND RETURNS—Councilmen Curtin, Kittredge and Bailey.

Special Committees of the Common Council

CLERK'S RECORD—Councilmen Mellen and Bailey.

RULES—Councilmen Blake, McIntyre and J. F. Connors.

CITY OFFICERS FOR 1906.

MAYOR

Telephone, 395.

JAMES B. CASEY.....Office, City Hall

CITY CLERK

Telephone, 430

GIRARD P. DADMAN.....Office, City Hall

Chosen by the City Council in convention in January. Term expires first Monday in January, or when successor is chosen. City Charter, Sect. 17, Ord., Chap. 8.

ASSISTANT CITY CLERK

WILLIAM P. MCCARTHY Office, City Hall

Appointed by the City Clerk, subject to approval of the Board of Aldermen.

CLERK OF COMMITTEES

Telephone, 130

FRANK M. DOWLING, Term expires 1907 Office, City Hall

Chosen by concurrent vote in January for the term of three years.

CITY TREASURER AND COLLECTOR OF TAXES

Telephone, 577

ANDREW G. STILES.....Office, City Hall

Chosen by the City Council in convention in January for one year from first day of April, or until successor is chosen. City Charter, Sect. 17, Ord, Chap. 9.

AUDITOR OF ACCOUNTS

Telephone, 74

CHARLES D. PAIGE, Term expires April 1, 1909.....Office, City Hall

Chosen by concurrent vote in January or February for three years from first day of April, or until successor is chosen. Chap. 373, Acts of 1905.

SUPERINTENDENT OF STREETS

Telephone, 572-3

CHARLES J. MORSE.....Office, City Hall

Chosen by concurrent vote in January or February. Term expires first Monday in Jan., or when successor is chosen. Ord., Chap. 39, Sec. 1.

CHIEF OF THE DEPARTMENT OF SUPPLIES

Telephone, 230

JAMES E. DONNELLY.....Office, City Hall

Chosen at annual city election. Sect. 3, Chap. 415, Acts of 1896.

CIVIL ENGINEER FOR THE CITY

Telephone, 136-2

GEORGE BOWERS.....Office, City Hall

Chosen by concurrent vote in Jan. or Feb. for one year from the first day of April, or until his successor is chosen. Ord., Chap. 13, Sect. 1.

CITY SOLICITOR

Telephone, 566-5

JAMES GILBERT HILL.....Office, City Hall

Chosen by concurrent vote in Jan. or Feb. for one year from the first day of March, or until his successor is chosen. Ord., Chap. 11, Sect. 1.

CITY MESSENGER

Telephone, 130

JOSEPH E. PATTEE.....Office, City Hall

Chosen by concurrent vote in Jan. for one year from first Monday in Feb. or until successor is chosen. Ord., Chap. 10, Sect. 1.

LIBRARIAN OF CITY LIBRARY

Telephone, 506-3

FREDERICK A. CHASE.....Office, at City Library

Chosen by the Board of Trustees of the City Library. Chap. 231, Sect. 5, Acts of 1888.

BOARD OF PARK COMMISSIONERS

THALLES P. HALL.....	Term expires 1905
COL. PERCY PARKER	Term expires 1906
HON. JOHN E. DRURY, (Secretary).....	Term expires 1907
HON. JOHN J. PICKMAN (Chairman).....	Term expires 1908
HARVEY B. GREENE.....	Term expires 1909

One member appointed annually by the Mayor with the approval of the City Council, for a term of five years from the first Monday in May. Revised Laws, Chap. 28.

CHARLES A. WHITTET, Superintendent.

TRUSTEES OF CITY LIBRARY

JAMES B. CASEY, Chairman, Ex-Officio.....	Mayor
MRS. ROWENA PALMER	Term expires 1907
FRANK P. PUTNAM.....	Term expires 1908
GEORGE F. RICHARDSON Vice-Chairman.....	Term expires 1909
THOMAS WALSH.....	Term expires 1910
DENNIS A. SULLIVAN.....	Term expires 1911
FREDERICK A. CHASE	Clerk

One appointed by the Mayor in December for term of five years commencing the second Monday in January, or until successor is appointed. Regular meeting last Tuesday in each month.

SUPERINTENDENT OF PUBLIC BUILDINGS

Telephone, 129-2

JOHN J. O'CONNOR.....Office, City Hall

Chosen by concurrent vote in January or February. Term expires first Monday in Jan., or when successor is chosen. Ord., Chap. 5, Sect. 1

CITY PHYSICIAN

Telephone, 441-2

FORSTER H. SMITH, Term expires Dec. 1, 1908.....Office, City Hall

Chosen by concurrent vote in October or November for term of three years from first day of December. Ord. approved Dec. 9, 1905.

TRUSTEES OF PUBLIC BURIAL GROUNDS

Telephone 58-4

JAMES B. CASEY, Chairman, Ex-Officio.....Mayor

RICHARD A. GRIFFITHS.....Term expires Jan. 1, 1907

JOHN L. STEVENS.....Term expires Jan. 1, 1908

RICHARD A. GRIFFITHS.....Secretary

JOHN G. JACKSON.....Superintendent

One appointed by Mayor and Aldermen annually in December, for two years from the first day of January next ensuing, or until successor is Appointed. Acts of 1891, Chap. 337.

ASSESSORS OF TAXES

Telephone, 136-3

JOHN P. MAHONEY.....Term expires 1907

ABEL WHEELER.....Term expires 1908

C. ARTHUR ABBOTT.....Term expires 1909

ABEL WHEELER.....Chairman

JOHN P. MAHONEY.....Secretary

WILLIAM J. REARDON.....Clerk

ASSISTANT ASSESSORS OF TAXES

RICHARD CHARLTON	JOHN C. KING
EDWARD T. GOWARD	WM. J. McCLUSKEY
THOMAS F. GARVEY	MICHAEL BOURDON

Assessors :—One chosen by concurrent vote annually in January or February, for the term of three years from the first Monday in January, or until successor is chosen. Ord., Chap. 3, Sect. 1.

Assistant Assessors :—Appointed by the Assessors for May and June. Ord. approved February 28, 1899.

INSPECTOR OF WIRES

JAMES F. McELHOLM.....Term expires Feb. 1, 1907

Appointed by Mayor and Aldermen in January for term of three years. Ord. approved July 15, 1898.

BOARD OF CHARITIES

Chap. 337, Acts of 1905.

Appointed by the Mayor for terms of one, two, three, four and five years. After 1906, one member annually for five years.

LAWRENCE CUMMINGS (Chairman).....Term expires Jan. 15, 1911
 AMASA PRATT.....Term expires Jan. 15, 1910
 ELZEAR H. CHOQUETTE.....Term expires Jan. 15, 1909
 JAMES E. GORMAN.....Term expires Jan. 15, 1908
 CHARLES C. DURSTHOFF.....Term expires Jan. 15, 1907

SUPERINTENDENT

MARTIN J. COURTNEY.....Office, City Hall

District and Dispensary Physicians

DISTRICT 1—DR. T. J. HALLORAN.....	8 Runels Building
DISTRICT 2—DR. A. J. HALPIN.....	26 Central St
DISTRICT 3—DR. E. A. MURPHY.....	7 and 8 Shedd Building
DISTRICT 4—DR. A. E. GILLARD.....	81 Merrimack St
DISTRICT 5—DR. GEORGE O. LAVALLEE.....	777 Merrimack St
DISTRICT 6—DR. PIERRE BRUNELLE, JR.	33 East Merrimack St

City Dispensary

Office, City Hall

EDWIN F. MASON.....Clerk

Open week days 9 A. M. to 1 P. M., 2.30 to 5 P. M.

WATER BOARD

OFFICE, CITY HALL

Telephone, 271-2

ROBERT J. CROWLEY.....President

ROBERT J. CROWLEY.....Term expires 1907

FRANK L. WEAVER.....Term expires 1908

ISAAC E. WOTTON.....Term expires 1909

Z. WINCHELL STURTEVANT.....Term expires 1910

JOHN W. CRAWFORD.....Clerk

ROBERT J. THOMAS.....Superintendent

The members of the Lowell Water Board are chosen by concurrent vote in January or February for a term of four years from second Monday in March following their election, one member retiring annually.

The Superintendent is chosen in March by the Board.

The Clerk is chosen by the Board in June. Ord. Chap. 45.

HOURS: 9 A. M. to 5 P. M.

COMMISSIONERS OF SINKING FUNDS

CHARLES L. KNAPP.....Term expires 1907
 AUSTIN K. CHADWICK.....Term expires 1908
 FRED A. BUTTRICK.....Term expires 1909

ANDREW G. STILES.....Secretary and Treasurer

One member elected annually by the City Council in December for three years, commencing January first. Revised Laws, Chap. 27, Sect. 14.

BOARD OF CIVIL SERVICE EXAMINERS

JOSEPH SMITH.....Chairman

JOHN J. COLTON, M. D., CHARLES H. CONANT, JOSEPH SMITH

CHARLES H. CONANT.....Secretary

Appointed by State Civil Service Commissioners.

SUPERINTENDENT OF STATE AID AND AGENT FOR THE BURIAL OF INDIGENT SOLDIERS AND SAILORS, ETC.

Telephone, 136-4

HUBERT M. POTTER

MARY C. BRENNAN, Asst. Supt.

Appointed by Mayor and Aldermen prior to first day of February, for one year. Ord. approved Sept. 27, 1898.

FIRE DEPARTMENT

The Chief Engineer is elected by concurrent vote in the month of March or April, for the term of three years. Sec. 2, Chap. 95, Acts of 1897.

Assistant Engineers appointed by the Mayor and Aldermen in March or April, the First Assistant for three years, the others for one year, commencing the first day of May. Ord. approved Nov. 27, 1896.

Chief Engineer

Telephone, 201-12

EDWARD S. HOSMER, 202 Westford Street.....Term expires 1909

Office, Engine House, Middle Street.

Assistant Engineers

JAMES F. NORTON First Assistant, 22 Ames St.....Term expires 1907

GEORGE F. SALMON, 91 Mt. Washington St.....Term expires 1906

EDWARD MELOY, 30 Fort Hill Ave.....Term expires 1906

CHARLES STACKPOLE, 105 Liberty Street.....Term expires 1906

JAMES F. NORTON.....Clerk of the Board

The Clerk is chosen by the Engineers.

Operator of Fire Alarm Telegraph

HENRY C FERNALD.....Central Station

BOARD OF POLICE OF THE CITY OF LOWELL

Office, Police Station

JOSEPH J. JENNINGS.....Chairman

JOSEPH J. JENNINGS.....Term expires 1912

FRED N. WIER.....Term expires 1910

JOHN W. McEVOY.....Term expires 1908

Appointed by the Mayor under the provisions of Chap. 428 of the Acts of 1894 and Chap. 187 Acts of 1895.

JOSEPH SMITH.....Clerk

Regular meetings at the Police station every Tuesday evening at 8 o'clock.

Telephone 101

WILLIAM B. MOFFATT, Superintendent of Police

REDMOND WELCH, Deputy Superintendent

WILLIAM R. KEW, Captain

JAMES BROSNAN, Lieutenant

HUGH DOWNEY, Lieutenant

JAMES E. WEBSTER, Lieutenant

MARTIN CONNORS, Sergeant

JOHN B. CROWLEY, Sergeant

JOHN FREEMAN, Sergeant

DAVID J. DONALDSON, Inspector, Criminal

CHARLES LAFLAMME, Inspector, Criminal

JOHN A. WALSH, Inspector, Criminal

MARTIN MAHER, Inspector, Criminal

MICHAEL E. McDONALD, Inspector of Claims

Keeper of Lockup

WILLIAM B. MOFFATT

Constables

ADAMS, THOMAS E

LAPIERRE, JOSEPH S

BATES, FREDERICK A

LAPORTE, ELIE C

BRADLEY, CHARLES F

MAGUIRE, JOHN E.

BREAULT, JEAN L

MANSUR, EZRA E

CATES, ALFRED T

McMANUS, JOHN

DELANEY, THOMAS B

McCLUSKEY, WM. J

DEMARAS, HARRY

PINDER, JOHN J

EMERY, DANIEL

RIVET, J. DOUGLAS

GATELY, BERNARD F

SAVITHES, JORDAN S

GERRISH, ENOCH

SLATTERY, EDWARD F

HARTWELL, CHARLES C

SMITH, WALTER S

TURCOTTE, ISIDORE

POLICE COURT

Telephone, 575

SAMUEL P. HADLEY.....	Standing Justice
JOHN J. PICKMAN.....	Special Justice
FREDERICK A. FISHER....	Special Justice
JAMES F. SAVAGE.....	Clerk
EDWARD W. TRULL.....	Assistant Clerk
EDWARD F. SLATTERY.....	Probation Officer

HEALTH COMMISSIONER

Telephone, 101

WILLIAM B. MOFFATT..... Office, Police Station

Chosen by concurrent vote by nomination commencing in the Board of Aldermen, in January or February. Ord., Chap. 41, Sect. 1.

BOARD OF HEALTH

Telephone, 549-2

WM. B. JACKSON, M. D.,.....Term expires first Mon. in Feb. 1905

WM. C. DOHERTY, Secretary, ...Term expires first Mon. in Feb. 1906

LEONARD HUNTRESS, M. D.,(Chn)Term expires first Mon. in Feb. 1907

One member appointed annually by the Mayor and Board of Aldermen in January for term of three years from first Monday in February. Chap. 332, Sect. 1, Acts of 1895.

BOARD OF REGISTRARS OF VOTERS

JOHN P. FARLEY, Chairman

CORNELIUS F. SULLIVAN Term expires May 1, 1907

ALBERT J. BLAZON Term expires May 1, 1908

JOHN P. FARLEY.....Term expires May 1, 1909

GIRARD P. DADMAN, City Clerk, Ex-Officio.

Revised Laws, Chap. 11, Sect. 25

One member appointed annually in March or April for three years from the first day of May next ensuing and until his successor is appointed and qualified.

FENCE VIEWERS

WILLIAM A. ARNOLD

JOHN VINCENT

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

FIELD DRIVERS

FRANK FOX

WILLIAM G. BUMPS

JAMES E. WEBSTER

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

POUND KEEPER

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

SEALER OF WEIGHTS AND MEASURES**JAMES H. CAROLAN**

Appointed by the Board of Aldermen by nomination in March or April. Revised Laws, Chap. 62, Sect. 18, Ord. Chap. 41, Sect. 2.

INSPECTOR OF MILK, VINEGAR and OLEOMARGARINE**THOMAS O. ALLEN**.....Office, City Hall

Appointed by the Board of Aldermen by nomination in January or February. Ord., Chap. 41, Sect. 2.

INSPECTOR OF ANIMALS**WALTER A. SHERMAN**.....Office 340 Central Street

Appointed by the Mayor and Board of Aldermen annually in March, subject to approval of Chief of Cattle Bureau. Revised Laws Chap. 90, Sect. 12, Acts of 1902, Chap 116.

INSPECTOR OF PROVISIONS**JOHN M. FARRELL**

Appointed by the Mayor and Board of Aldermen

INSPECTORS OF PETROLEUM OIL**THOMAS O. ALLEN****EDWARD S. HOSMER**

Appointed by the Mayor and Aldermen. Revised Laws, Chap. 102, Sect. 109.

INSPECTOR OF BOILERS

BARTHOLOMEW SCANNELL

Revised Laws Chap. 105, Sect. 7

FISH WARDEN

GEORGE T. SPENCE

Appointed by the Mayor and Aldermen. Revised Laws, Chap. 91, Sect. 54

**SUPERINTENDENT OF CITY SCALES--MEASURER OF WOOD
AND BARK--INSPECTOR OF BALED OR BUNDLED
HAY--AT CITY SCALES**

GEORGE F. NOONAN

Office at City Scales, Rear of Police Station

Appointed by the Board of Aldermen in January or February. Ord.
Chap 46, Sect. 1 ; Chap. 21, Sect. 1.

**MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR
RAILROAD CARS INTO THE CITY**

JOHN F. BATEMAN

ORA M. SNELL

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 46, Sect. 1.

MEASURERS OF WOOD AND BARK

COBURN, C. G	LINSCOTT, HIRAM E
FENTON, ABRAM	McPHETRES, SAMUEL A
FULLER, GEORGE B	MURPHY, THOMAS J
GILMORE, ROBERT J	STANLEY, HARRY L
GRIFFIN, WARREN T	SULLIVAN, JOHN B
HALL, OSCAR A	WASHINGTON, GEORGE
HUMPHREY, J F	

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 46, Sect. 1.

MEASURERS OF GRAIN

FENTON, ABRAM	RYAN, ARNOLD J
LAZELLE, FRANK W	SMITH, LORENZO E
LIVINGSTON, WM	SULLIVAN, JOHN B
McPHETRES, SAMUEL A	WILLIAMS, HENRY J
MURPHY, THOMAS J	WILSON, FRANKLIN T
MULLANEY, JOHN J	

Fees—2½ mills a bushel for measuring. Appointed by the Board of
Aldermen in January or February. Ord. Chap. 41, Sect. 2.

SURVEYORS OF LUMBER

BATEMAN, JOHN F	MAYBERRY, OLIVER W
ERWIN, JAMES	McAWLEY, KENNETH
FENTON, ABRAM	McLEOD, MURDOCK K
FULLER, GEORGE B	McPHEE, HARRY
FLANDERS, CHARLES S	McPHERSON, ARTHUR I
FLEMING, GEORGE A	McPHETRES, SAMUEL A
GILMAN, ALBERT I	MURPHY, THOMAS J
HALL, OSCAR A	NEALE, AUSTIN J

HUMPHREY, J F

ROBINSON, CHARLES D

LAWRENCE, C F

SANFORD, W A

LINSKOTT, HIRAM E

WHITNEY, GEO. W

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

SURVEYORS OF PLASTERING, BRICK OR STONE WORK AND PAINTING

BATEMAN, JOHN F

SMITH, MELVIN B

BROOKS, HENRY O

SNELL, ORA M

Appointed by the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 2.

WEIGHERS OF HAY AND OTHER ARTICLES

BEALS, LAFOREST

McPHETRES, SAMUEL A

BRICKETT, EDMUND

MORSE, R. A.

BUCKMINSTER, ROLLIN

MULLANEY, JOHN J

BROWN, F. L.

MURPHY, THOMAS J

CADY, GEO. L. Jr

O'BRIEN, EVERETT

COBURN, C G

SMITH, LORENZO E

CURRAN, MICHAEL

SULLIVAN, JOHN B

FENTON, ABRAHAM

WILLIAMS, HENRY J

HUMPHREY, J F

WILSON, FRANKLIN T

LAZELLE, FRANK W

WOLFF, ABRAHAM

LIVINGSTON, WILLIAM

Appointed by the Board of Aldermen in January or February. Ord. Chap. 21, Sect. 1.

WEIGHERS OF COAL

BRICKETT EDMUND

MOODY, GEO H

BUCKMINSTER, ROLLIN

MULLANEY, JOHN J

CADY, GEO. L., JR.	MULLIN, LEON H
CURRAN, MICHAEL	MURPHY, THOMAS J
DREWETT, EDWARD	RUSHWORTH, CHARLES B
FENTON, ABRAM	SMITH, LORENZO E
GRIFFIN, WARREN T	STANLEY, HARRY L
KENNEDY, EDWARD A	VIEIRA, JOHN R
LANNAN, JAMES	WASHINGTON, GEORGE
MARTIN, CHAS. G	WILSON, FRANKLIN T
LIVINGSTON, WM E	WOLFF, ABRAHAM
McPHETRES, SAMUEL A	

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 41, Sect. 2.



SCHOOL COMMITTEE FOR 1906.

WILLIAM W. DUNCAN.....President
ARTHUR K. WHITCOMB.....Secretary

MEMBERS

Ward 1—WILLIAM W. DUNCAN.....Term expires 1907
Tel. 662-2, Office 21 Hildreth Building

Ward 2—JOHN J. SULLIVN, JR.....Term expires 1907
318 Suffolk Street.

Ward 3—ANDREW S. WOOD Term expires 1906
C. I. Hood Co.

Ward 4—JOHN W. HAMILTON.....Term expires 1907
41 Hudson Street

Ward 5—EUGENE C. QUEENAN.....Term expires 1906
54 Pond Street

Ward 6—HARRY SWANN Term expires 1906
Tel. 1288-12, 94 Beech Street

Ward 7—ANDREW G. SWAPP.....Term expires 1907
Tel. 330, 307 Pawtucket Street

Ward 8—CHARLES W. TAYLOR, M. D.....Term expires 1906
Tel. 903-5, 17 Kirk Street

Ward 9—J. B. ALBERT JOHNSON.....Term expires 1907
Tel. 1125-3, 118 Moore Street

STANDING COMMITTEES

1. ON TEACHERS AND SALARIES—Messrs. Swapp, Duncan and Queenan.
 2. ON BOOKS AND SUPPLIES—Messrs. Taylor, Swann, Hamilton, Wood and Sullivan.
 3. ON EVENING SCHOOLS—Messrs. Wood, Swapp, Taylor, Swann and Sullivan.
 4. ON HIGH SCHOOL—Messrs. Duncan, Swapp, Taylor, Queenan and Hamilton.
 5. ON EVENING DRAWING SCHOOLS—Messrs. Johnson, Duncan and Queenan.
 6. ON MUSIC—Messrs. Johnson, Wood and Sullivan.
 7. ON REPORTS—Messrs. Wood, Taylor and Hamilton.
 8. ON ACCOUNTS—Messrs. Swann, Johnson and Queenan.
 9. ON SCHOOL HOUSES AND HYGIENE—Messrs. Swann, Johnson and Hamilton.
 10. ON RULES—Messrs. Duncan, Swapp and Sullivan.
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ASSIGNMENT OF SCHOOLS

MR. DUNCAN, Ward 1—High, Edson, Eliot, Kirk Street, Cottage Street

MR. SULLIVAN, Ward 2—Green, Worthen Street, Cheever Street, Morrill, Morrill Kindergarten

MR. WOOD, Ward 3—Lincoln, Howard Street, Grand Street, Plain Street, Lincoln and Plain Street Kindergartens

MR. HAMILTON, Ward 4—High, Butler, London Street, Weed Street, Agawam Street, Carter Street, Lyon Street, Agawam Street and Chapel Street Kindergartens

MR. QUEENAN, Ward 5—High, Charles Street, Central Street, Ames Street, Fayette Street, Charles Street Kindergarten

MR. SWANN, Ward 6—Varnum, West Sixth Street, Tenth Street, Lakeview Avenue, Billings Street, Varnum Kindergarten

MR. SWAPP, Ward 7—High, Bartlett, Pawtucket, Training, Cross Street, Cabot Street, New Moody Street, Lexington Avenue, Pawtucket and Bartlett Kindergartens

MR. TAYLOR, Ward 8—High, Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens

MR. JOHNSON, Ward 9—Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten

Assignment of Evening Schools

MR. WOOD—High, Edson, Howard Street.

MR. SWAPP—Bartlett, Green, Cheever, Pawtucket.

MR. SWANN—Varnum, Aiken Avenue, Moody, Colburn.

MR. TAYLOR—Mann, Worthen.

MR. SULLIVAN—Butler, Franklin.

Superintendent of Public Schools

ARTHUR K. WHITCOMB.....Office, City Hall
Telephone, 566-4.

Office Hours—One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Saturday afternoon.

Truant Commissioners

GEO. F. STURTEVANT

JAMES KELLY

WM. F. THORNTON

CAMILLE ROUSSIN

Telephone, 506-2

OFFICE—Third Floor, City Hall.

Office Hours—Saturday, 2 to 3 o'clock, p. m. Other days 4 to 5 p. m.
except during the summer vacaion, when the office will be open from
9 to 10 o'clock a. m.

Regular Meetings of the School Committee

January.....	30	July.....	31
February.....	27	August.....	28
March.....	27	September.....	25
April.....	24	October.....	30
May.....	29	November.....	27
June.....	26	December.....	26

CHARTER AMENDMENTS. ACTS OF 1896.

CHP. 415.

AN ACT TO AMEND THE CHARTER OF THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Section 1. All executive powers which are now by law vested in the City Council of the City of Lowell, or either branch thereof, shall hereafter be vested in and exercised by the Mayor of said city except as hereinafter otherwise provided.

Sect. 2. The mayor may suspend or remove any executive or administrative officer except as hereinafter provided, for such cause as he shall deem sufficient, and shall set forth in the order of suspension or removal his reasons therefor, provided that no removal shall be made upon partisan grounds. The order of suspension or removal shall not take effect until it is approved by the City Council voting by yeas and nays. The City Council may, by a two-thirds vote in each branch, voting by yeas and nays, remove any of said officers without the consent of the Mayor ; provided, however, that nothing contained in this section shall apply to any of the following departments, namely : the School Committee, the Police Commission, the Water Board, the Overseers of the Poor, or the Trustees of the Public Library.

Sect. 3. There shall be a department of supplies, and all material and supplies for the city shall be purchased by the chief or head of such department, subject to the approval of the Mayor. So far as is practicable, purchases shall be after public advertisement and under contract approved by the Mayor. All bills for material and supplies shall show the date of purchase, date of delivery, the unit of price, the quality and quantity of articles purchased and received, the number and date of the order of purchase, and if the purchase is under contract, the number and date of the contract, and shall be entered in full in an invoice book, which shall always be open to public inspection. The chief of this de-

partment shall be elected by the qualified voters of the city voting at the annual municipal election, and shall hold his office for the next municipal year thereafter, subject to the provisions of section two of this act.

Sect. 4. The Mayor shall cause to be kept a record of all his official acts, and to aid him in his official duties may appoint one or more clerks.

Sect. 5. The heads of the several departments and officers shall have the power to appoint and employ and to discharge all subordinate officers and employees in their respective departments; and they shall keep a record, subject to inspection, of all so appointed and employed and of all discharged, and in all cases of discharge the grounds therefor; provided, however, that no removals shall be made upon partisan grounds.

Sect. 6. The heads of the several departments and offices shall have the general charge and management of all matters pertaining to their respective departments, and shall make and execute all contracts necessary therefor, except for the purchase of material and supplies; but every contract made as aforesaid in which the amount involved exceeds three hundred dollars shall be approved by the Mayor before going into effect; provided that nothing in this section shall be construed to prevent the City Council, by ordinance, from transferring any of the duties imposed upon an appointed head of a department by this act or by ordinance, excepting the purchase of material and supplies, to another head of a department or board or commission.

Sect. 7. Neither the City Council nor either branch thereof, nor any committee or member thereof, shall directly or indirectly take part in the employment of labor, the purchase of material, the construction, alteration or repair of any public works or other property, or in the care, custody or management of the same, or in general in the expenditure of public money, or in the conduct of the executive or administrative business of the city, except as may be necessary for defraying the contingent and incidental expenses of the City Council, or of either branch thereof; nor shall they or either of them take part in the making of contracts.

Sect. 8. No sum appropriated for a specific purpose shall be expended for any other purpose; and no expenditure shall be made and no liability shall be incurred by or on behalf of the city until the City Council has duly voted an appropriation sufficient to meet such expenditure or

liability, together with all prior unpaid liabilities which are payable therefrom, except that after the expiration of the financial year and before the making of the regular annual appropriations, liabilities payable out of the regular appropriations may be incurred to an amount not exceeding one-sixth of the total of the appropriation made for similar purposes in the preceding year; provided, however, that nothing herein contained shall be construed to restrict or limit the School Committee in any expenditure which it is now or may be hereafter authorized to make under any general law of the Commonwealth, or to restrict or limit payments on account of the permanent or temporary debt, or such as are required by law to be made to the Commonwealth.

Sect. 9. All revenues and all monies accruing to the City of Lowell from any source whatever, except trust funds and the revenues of the Water Department, shall, when collected or paid into the treasury, be carried to one general account, to be known as the General Treasury Fund; and all appropriations by or on behalf of said city, except from trust funds and on account of the Water Department, shall be from such fund and as provided in section ten of this act.

Sect. 10. All bills or other claims, before they are finally certified by the auditor or paid, shall pass the inspection of a committee of the City Council on accounts. Said committee shall consist of one member of the Board of Aldermen and two members of the Common Council, to be elected annually by ballot by the body they respectively represent. Said committee may report any such bill or claim to the City Council, with their reasons therefor, and no bill or claim so reported shall be passed by the Auditor, or be paid without the consent of the Council. Said committee may require the opinion of the City Solicitor as to the legality of a bill or other claim.

Sect. 11. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or appropriation of the public monies, or involving any debt or liability, and said vote shall be entered upon the records of each branch of the City Council.

Sect. 12. Less than a quorum of either branch of the City Council, or of the School Committee, or of the Board of Overseers of the Poor, may adjourn to a fixed day earlier than the next regular meeting, and

shall have power to compell the attendaunce of absent members in such manner as the City Council may by ordinance provide.

Sect. 13. All acts or parts of acts and all ordinances of the City of Lowell inconsistent herewith are hereby repealed and annulled ; provided, that no act or ordinance heretofore repealed shall thereby be revived ; and provided, also, that nothing in this act shall be taken to prohibit the City Council from abolishing any department, board, office or commission created by ordinance.

Sect. 14. The question of the acceptance of this act shall be submitted to the qualified voters of the City of Lowell at the annual State election in the present year, and the affirmative votes of a majority of the voters present and voting thereon shall be required for such acceptance. If so accepted, so much thereof as provides for the election of a Chief of the Department of Supplies shall take effect at the next annual municipal election, and the act shall take full effect on the first Monday of January in the year eighteen hundred and ninety-seven. [Approved May 16, 1896.

ACTS OF 1897.

[CHAP. 95.]

AN ACT RELATIVE TO THE DUTIES AND POWERS OF CERTAIN OFFICERS OF THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Section 1. The City Council of the City of Lowell, and each branch thereof, shall have and exercise all the power and authority relative to the election or appointment of city officers, or the confirmation of appointments to office, which were vested in them prior to the enactment of

section one of chapter four hundred and fifteen of the acts of the year eighteen hundred and ninety six.

Sect. 2. The Chief of the Fire Department of said city shall be elected by concurrent vote of both branches of the City Council.

Sect. 3. The City Council shall by ordinance determine what officers shall be the heads of the various departments of the City Government. The head of the department of supplies may sell or dispose of the personal property of the city, upon the recommendation of the Mayor and of the head of the department to which such property belongs, except the products of the City Farm, which the superintendent of said farm shall have the right to dispose of.

Sect. 4. All ordinances of said city inconsistent herewith are hereby annulled, and all acts or parts of acts inconsistent herewith are hereby repealed.

Sect. 5. This act shall take effect upon its passage. [Approved February 20, 1897.]

ACTS OF 1898.

[CHAP. 173.]

AN ACT RELATIVE TO APPOINTMENTS IN THE FIRE DEPARTMENT OF THE CITY OF LOWELL.

Be it enacted, etc., as follows:

Section 1. The Chief Engineer of the Fire Department of the City of Lowell may, on the recommendation of the Board of Engineers, appoint as members of the permanent force, or as call men, without civil service-examination, any person who has served as call or substitute call-man in said service for three or more successive years prior to the passage of this act.

Sect. 2. Said Chief Engineer shall have the power to discharge all subordinate officers and employees in the Fire Department of said city, except the members of said board, and with the approval of said board, to appoint and employ all such officers and employees.

Sect. 3. All acts and parts of acts inconsistent herewith are hereby repealed.

Sect. 4. This act shall take effect upon its passage. [Approved March 15, 1898.]

SEC. 7, CHAP. 26, REVISED LAWS.

No election of a city officer by a municipal body or board shall be valid unless made by a viva voce vote, each member who is present answering to his name when it is called by the clerk or other proper officer, stating the name of the person for whom he votes, or that he declines to vote. The clerk or other proper officer shall record every such vote

ACTS OF 1905.

[CHAP. 337.]

AN ACT TO ABOLISH THE BOARD OF OVERSEERS OF THE POOR AND TO
CREATE A BOARD OF CHARITIES IN THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Section 1. The board of overseers of the poor in the City of Lowell shall be abolished as hereinafter provided, and all its powers, rights, duties and liabilities shall be transferred to a board of charities in the said city. No existing contracts, liabilities or suits shall be affected by this act except as hereinafter provided, but the board of charities hereinafter

created shall be in all respects the successor of said board of overseers of the poor.

Sect. 2. Between the fifth day and the fifteenth day of January, nineteen hundred and six, the mayor shall appoint a board of charities consisting of five persons, residents of the city, who shall hold office for terms of one, two, three, four and five years, respectively, from the fifteenth day of January, nineteen hundred and six, or until their successors are appointed and qualified; and thereafter the mayor shall annually, before the fifteenth day of January, appoint one member of said board to serve for a term of five years from said fifteenth day of January. A vacancy shall be filled in the same manner for the unexpired term. The mayor shall designate a member to be chairman. The mayor may remove any member at any time.

Sect. 3. No overseers of the poor shall be elected at the City election of nineteen hundred and five, but the overseers of the poor who were elected for terms ending on the first Monday in January, nineteen hundred and seven, shall constitute the board of overseers of the poor from the first Monday in January, nineteen hundred and six, until the fifteenth day of January, nineteen hundred and six, when their terms shall expire. The term of office of all officers and employees of the overseers of the poor shall expire on the fifteenth day of January, nineteen hundred and six, or upon the appointment of their successors thereafter.

Sect. 4. The board of charities shall appoint a superintendent of charities, who shall have general executive charge of the department of charities, and shall hold office during the pleasure of the said board. He shall receive such salary as the city council may determine.

Sect. 5. All other officers and employees of the department of charities shall be appointed by the superintendent of charities and shall hold their offices and positions at his pleasure.

Sect. 6. This act shall be submitted to the qualified voters of the City of Lowell at the annual state election in the present year and shall take effect upon its acceptance by a majority vote of those voting thereon. The question of acceptance shall be placed upon the official ballot directly after the list of candidates and in the following form:—Shall an

act passed by the general court in the year nineteen hundred and five, entitled "An act to abolish the overseers of the poor and to create a board of charities in the City of Lowell," be accepted?

Sect. 7. So much of any act or of any ordinance of the City of Lowell as is inconsistent herewith is hereby repealed or annulled.

Sect. 8. So much of this act as is contained in section six shall take effect upon its passage. [Approved April 26, 1905.]

ORDINANCES OF THE CITY OF LOWELL.

PASSED SINCE 1894

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO ISSUE REGISTERED CERTIFICATES, NOTES OR BONDS IN EXCHANGE FOR CERTIFICATES, NOTES OR BONDS PAYABLE TO BEARER.

Be it ordained, etc., as follows :

*The City Treasurer may, in accordance with the provisions of Section 5 of Chapter 77 of the Public Statutes, at the request of the owner or holder of any bond, promissory note or certificate of indebtedness of the City of Lowell, at any time while more than one year remains before the principal of such bond, note or certificate is payable, issue in exchange therefor a bond, note or certificate of same effect, payable to the owner or holder by name.

The City Treasurer may also, under like conditions, issue registered certificates, in substitution for any mutilated, defaced or endorsed bonds, notes or certificates; and where a bond, note or certificate of any issue has been lost or destroyed, the City Treasurer, under the direction of the joint standing committee on finance, may issue in place thereof a new bond, note or certificate of the same effect.

The City Auditor, as well as the City Treasurer, shall keep a register of the dates, numbers and amounts of all bonds, notes and certificates issued by the City Treasurer, showing to whom they were issued, when they are payable, and if issued in exchange, for what they were substituted. [Approved May 12, 1896.]

*Now Sect. 4, Chapt. 73, Revised Laws.

AN ORDINANCE AMENDING SECTION THIRTEEN OF CHAPTER ONE OF THE REVISED ORDINANCES SO AS TO PROVIDE THAT THE SALARIES AND COMPENSATION OF CITY OFFICERS WHEN ONCE ESTABLISHED SHALL CONTINUE UNTIL RE-ESTABLISHED OR CHANGED.

Be it ordained, etc., as follows :

Section 13 of Chapter 1 of the Revised Ordinances is hereby amended by striking out between the word "year" in the third line of said section and the word "provided" in the sixth line thereof, the following words: "for the year commencing on the first Monday of January next ensuing; and no change of salary shall be made to take effect during the time for which said salary was established," and inserting in place thereof the following: "provided that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section; and " so that said section as amended shall read as follows :

Section 13. The salaries and compensation of city officers shall be established in the month of December and after the annual municipal election shall have been held, in each year; provided, that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section; and provided that in case any new office shall be created the salary of said newly created office may be fixed at any time; and the salaries or compensation fixed for the payment of said officers shall be in full for all services performed by them by virtue of their offices; and all sums of money received by them from any and every source, in discharge of said services, during any quarter of the fiscal year, shall at the expiration of said quarter be by them paid over or accounted for to the City Treasurer. [Approved May 12, 1896.

AN ORDINANCE REGULATING THE WEIGHING AND MEASURING OF CERTAIN ARTICLES PURCHASED BY THE CITY.

Be it ordained, etc., as follows :

All supplies of hay, grain, straw, coal, and any other material purchased for the use of the city or any department thereof exceeding one

hundred pounds in weight and usually weighed, shall be weighed on the city scales, and all wood purchased for said city shall be measured by the City Measurer of Wood, and no bills shall be paid by the City Treasurer or approved by any committee for such article so furnished the city, unless the certificate of said weigher or measurer shall accompany or be attached to said bill. [Approved May 12, 1896.]

AN ORDINANCE TO PREVENT THE PLACING OF ASHES, GLASS, CROCK-
ERY, ETC., IN OR ON THE PUBLIC STREETS OR WAYS.

Be it ordained, etc., as follows :

Section 1. Any person who shall put or place, or cause to be put or placed, in or upon any street, lane or alley, or other public place in this city, any ashes, glass, crockery, scrap iron, nails, tacks or any other article which would be liable to injure the feet of children or animals, or the tires of bicycles or other vehicles which have wheels with rubber or pneumatic tires, shall be deemed guilty of a misdemeanor.

Sec. 2. Any person violating the provisions of the preceding section or who is guilty of the misdemeanor therein described, shall be liable to a fine of not less than two dollars or more than twenty dollars for each offence. [Approved October 9, 1896.]

AN ORDINANCE AMENDING SECTIONS ONE AND NINE OF CHAPTER
TWENTY OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Section 1. That section 1, of Chapter 20 of the Ordinances of the City of Lowell be and the same is hereby amended by inserting after the word "engineer" in the second line of said section, the words "a first

assistant engineer and three other," and by striking out the word "four" in the second line of said section, and by inserting after the word "removed" in the sixteenth line of said section, the words "the first assistant engineer shall be appointed by the Mayor and Aldermen in the month of March or April, or whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May, and until his successor is appointed, or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith and shall continue therein until the expiration of the full term as existing at the time of said appointment, or until removed;" and by inserting between the words "said" and "assistant" in the seventeenth line of said section, the word "other;" and by inserting after the word "engineer" in the twenty-eighth line of said section, and before the word "shall" in the twenty-ninth line of said section, the words "and first assistant engineer;" so that said section shall read as follows:

Section 1. The Fire Department shall consist of a Chief Engineer, a First Assistant Engineer, who shall perform such duties as may be required of him by the Chief Engineer, and three other assistant engineers and as many enginemen, hosemen, hook and laddermen and other persons, to be divided into companies, as the number of engines and other fire apparatus of the city shall from time to time require; the Chief Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, or whenever a vacancy occurs, and he shall enter upon the discharge of the duties of said office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for the term of three years from said first day of May or until he is removed; and if appointed after the first day of May of any year, he shall enter upon the discharge of the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until removed. The First Assistant Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May and until his successor is appointed or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at

the time of his said appointment, or until he is removed ; and the appointment of said other assistant engineers shall be made by the Mayor and Aldermen in the month of March or April annually, and whenever a vacancy occurs, and they shall hold their respective offices for the term of one year from the first day of May succeeding their appointment, or until others are chosen ; all other members of the Fire Department shall be nominated by the Board of Engineers, and their names sent to the Mayor and Aldermen, and when by them appointed they shall be members of the Fire Department ; provided, that vacancies may be filled at any time, and that the Mayor and Aldermen may at any time remove any and all of said officers or members ; except that the Chief Engineer and First Assistant Engineer shall not be removed without a hearing and cause shown thereat. No person shall be appointed a member of the Fire Department who does not sustain a good moral character and who is not a citizen of the City of Lowell.

Sect. 2. This ordinance shall take effect upon its passage. [Approved Nov. 27, 1896.]

AN ORDINANCE IN RELATION TO AN ORDINANCE ON OPENINGS AND
EXCAVATIONS IN STREETS AND IMPOSING A PENALTY.

(See Ord. 1898.)

Be it ordained, etc., as follows :

Section 1. No person, firm or corporation shall dig up, make any excavation in, or in any manner change or interfere with the surface or grade of any street for the purpose of laying water, gas or sewer pipes or railway tracks, or for any other purpose, without first giving notice to the Superintendent of Streets, which notice shall state specifically the time when work will be commenced and the probable time within which it shall be completed.

SECT. 2. When any opening or excavation shall be made in any street in pursuance of Section 1, the Superintendent of Streets, by himself or by a servant or agent appointed by him for that purpose, shall see that the surface of such street is left in good order and condition for

public travel thereon. The expense for labor and material used in closing and covering such excavation shall in all cases be borne by the party causing the same to be made.

Sect. 3. Said superintendent shall, when about to build a new sewer or repair an old one, notify all the abutters on that part of the line of said sewer when he proposes to do work, so that said abutters may enter said sewer. He shall notify all abutters, when about to construct a new street, at least four weeks before beginning work, and when about to make a new surface of any street, at least two weeks before beginning work, shall notify the Superintendent of Lamps and Water Board and all persons authorized to place any obstructions in such street, and shall require and see that all said departments or persons having any work to be done in the street so designated, shall do all such work before the surface of such street is again prepared for and opened to public travel, and after the completion of the work then done in such street, shall not permit any department or person who shall have been so notified, for the space of two years, to again disturb the surface of such street or way within the area of such previous disturbance, except in case of obvious necessity, to be verified in writing to, and approved by the Mayor, and except in cases of tracks or leaks in pipes, sewers or wires.

Sect. 4. Any person, firm or corporation who shall dig up, make any excavations, or in any way change or alter the grade or surface of any accepted street, without giving the notice mentioned in Section 1 of this ordinance, shall be punished by a fine not exceeding twenty dollars.

Section 5. All ordinances and parts of ordinances, resolutions or orders of the City Council inconsistent herewith, are hereby repealed. Approved November 27, 1896.

AN ORDINANCE CREATING THE OFFICE OF SUPERINTENDENT OF COMMONS AND PROVIDING FOR THE ELECTION OF SUCH OFFICER.

(Superceded by Chap. 28, Revised Laws.)

Be it ordained, etc., as follows :

Section 1. There shall be chosen by concurrent vote of both brauches of the City Council in the month of January, 1898, a Superintendent of Commons; and in the month of January in each year thereafter, the City Council by concurrent vote of both branches shall elect a Superintendent of Commons who shall hold his office for one year and until his successor is chosen, but said officer may be removed from office at any time by a two-thirds vote of both branches of the City Council voting by yeas and nays. Any vacancy which may occur in said office shall be filled in like manner by concurrent vote of the City Council for the remainder of the unexpired term.

Sect. 2. Said Superintendent of Commons shall be the head of the Department of Commons, and shall have the care and control of all the commons and parks of the city, and of all the property connected with said department, and shall have the general care and management of all matters pertaining to said department; shall make and execute all contracts necessary therefor, except the purchase of material and supplies, but every contract made as aforesaid in which the amount involved exceeds three hundred dollars, shall be approved by the Mayor before going into effect. [Approved June 18, 1897.

AN ORDINANCE AMENDING SECTION TWELVE OF CHAPTER FIVE OF THE REVISED ORDINANCES.

Be it ordained, etc., as follows :

That section 12 of the Revised Ordinances of the City of Lowell be and the same is hereby amended by striking out the words " nor on either

side of Westford Street from the westerly line of Grand Street to the easterly line of Royal Street for a distance of fifty feet back from either line of Westford Street. [Approved July 21, 1897.

AN ORDINANCE AMENDING SECTION FIFTEEN, CHAPTER THIRTY-NINE
OF THE REVISED ORDINANCES OF THE YEAR EIGHTEEN HUNDRED
AND NINETY-FOUR.

Be it ordained, etc.; as follows :

That Section 15, Chapter 39, of the Revised Ordinances of the year 1894, be, and is hereby amended by striking out of the seventh line the word "forty-third," and inserting in place thereof the word "forty-fifth." [Approved July 21, 1897.

AN ORDINANCE REGULATING HAWKERS AND PEDDLERS.

Be it ordained, etc., as follows :

Section 1. No person shall hawk or peddle, sell or expose for sale within said city any of the articles enumerated in Section 1 of Chapter 68* of the Public Statutes, until he has been duly licensed by and has recorded his name and residence with the Board of Police of the City of Lowell, and has been assigned a number by said board, to be worn in such manner as such board may prescribe. Provided, however, that the foregoing provisions shall not apply to any other person than the one named in the license.

Sect. 2. No person hawking, peddling or selling, or exposing for sale any of the articles enumerated in Section 1 of Chapter 68* of the Public Statutes, shall cry his wares to the disturbance of the peace and comfort of the inhabitants of the city.

*Now Chap. 65, Sec. 15, 16, Revised Laws.

Sect. 3. No hawker or peddler shall carry or convey any of the articles enumerated in Chapter 68* of the Public Statutes in any manner that will tend to injure the public health, or disturb the public peace or comfort, nor otherwise than in vehicles and receptacles which have printed on them in letters and figures at least two inches in height the name of the person selling and the number given him by the Board of Police.

Sect. 4. Whoever violates any of the provisions of the preceding sections of this ordinance shall be liable to a penalty of not more than twenty dollars for each offence. [Approved July 29, 1897.*]

AN ORDINANCE TO AMEND SECTION EIGHTEEN OF CHAPTER SIX OF THE CITY ORDINANCES RELATING TO THE HITCHING OF HORSES TO LAMP POSTS.

Be it ordained, etc., as follows :

Section 18 of Chapter 6 of the City Ordinances is hereby amended by striking out all after the word "any" in the third line thereof and inserting instead thereof the words "lamp posts maintained by the city," so that said section as amended shall read as follows :

Sect. 18. No owner, driver or other person having the care or ordering of a vehicle shall hitch or fasten the horse or horses attached thereto to any lamp post maintained by the city. [Approved January 1, 1898.]

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO PRESCRIBE THE SYSTEM OF BOOKKEEPING FOR CERTAIN DEPARTMENTS AND OFFICERS RECEIVING MONEY BELONGING TO THE CITY AND PROVIDING FOR MORE FREQUENT RETURNS OF SUCH MONEY TO THE CITY TREASURY.

Be it ordained, etc., as follows :

Section 1. All departments and officers of the City Government ex-

*Now Chapter 65, Sect. 15, 16, of the Revised Laws.

cept the City Treasurer, whose official duty requires the receipt of money belonging to the city, shall keep such books and records relating to the same as shall be prescribed by the City Treasurer.

Sect. 2. The heads of each department and officers receiving money for the city shall remit to the Treasurer as often as once in each month any balance that may be in the possession of such department or officer belonging to the city, except in case when the time for such payment into the City Treasury is prescribed by statute.

Sect. 3. The Joint Committee on Accounts shall annually in connection with the annual examination of the accounts of the City Treasurer, examine, investigate and audit the books and accounts of all departments and officers receiving money for the city, and said committee shall make report of such examination to the City Council.

Sect. 4. All heads of departments and officers whose official duty requires the rendering of bills to individuals, cities or towns for charges of any nature, shall hereafter deliver all such bills to the City Treasurer for collection through his office.

Sect. 5. Section 9 of Chapter 1 of the Revised Ordinances and all ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved January 1, 1898.

AN ORDINANCE PROVIDING FOR ESTIMATES FOR APPROPRIATIONS AND
FOR OTHER PURPOSES

Be it ordained, etc., as follows :

Section 1. At the beginning of each municipal year and not later than the third Tuesday in January the mayor shall make and transmit to the City Council an estimate of the expenditures required for the year. Such estimate shall be framed and itemized so as to show separately :

Par. 2. The amounts required by each department, office, board, commission or other sub-division of the executive branch of the government, and so far as may be practicable for the sub-division of the work of each department.

Par. 3. The salary or compensation of each officer, deputy, assistant, clerk, or employee of the city not classed as a laborer. The amounts required for labor shall, when practicable, be stated separately from those for materials and supplies.

Par. 4. Such estimates shall be in such form as to show in parallel columns, opposite each item, the amount paid for the previous year, and the amount unexpended at the close of such year.

Sect. 2. The Mayor shall make, or cause to be made, and shall transmit to the City Council with the estimate required by the preceding section :

Par. 2. An itemized estimate of the revenues of the year from all sources except taxation of real and personal property and polls.

Par. 3. A statement of the balance unpaid at the close of the previous year on account of temporary loans, and the amount due by financial years, as unpaid taxes on real and personal property and polls.

Par. 4. An itemized statement of the debt, with interest becoming due during the year, and the margin available for loans within the debt limit for the year.

Par. 5. An itemized statement of all orders, etc., of the City Council involving expenditures which have not been appropriated for. In all cases the finances of the water service shall be shown separately.

Sect. 3. All regular annual appropriations shall be for and only ap-

plicable to the liabilities incurred during the year in which they are made, any form of phraseology in the order, resolution or vote providing for the same, to the contrary notwithstanding.

Par. 2. It shall be the duty of the Auditor to close all regular annual appropriation accounts with the last secular day in December of the year for which the appropriations are made, and to credit the general treasury fund account or accounts with the water service, as the case may be, with the balance to the credit of such appropriations; and thereafter no payment shall be made under such appropriations. He shall promptly report to the City Council the amount of each balance thus credited, and amount available in the general treasury fund, and the account with the water service, for the expenditures of the current year not otherwise appropriated.

Par. 3. All claims, accounts and bills against the City of Lowell under such appropriations remaining unpaid at such date, shall be numbered consecutively, and be entered by the Auditor in such order, in a permanent book of record, to be known as the register of claims, so as to show the name of the claimant, the amount claimed and allowed, the nature of the service and the action had thereon. The Auditor shall transmit to the City Council, on or before the first regular meeting night in February, of either branch of the City Council, a schedule of such claims with a condensed statement of the nature of each claim, and the action had thereon.

Sect. 4. The several estimates and statements called for by this ordinance shall on their receipt by either branch of the City Council be referred, without other action, to the Joint Committee on Appropriations.

Par. 2. The Committee on Appropriations shall consist of the Chairman and two additional members of the Board of Aldermen and the President and three additional members of the Common Council.

Section 6 of Chapter 1 of the Ordinances of the City of Lowell is hereby repealed.

Par. 3. Said committee shall have access to all or any of the records and official papers of the city, shall have power to require from any officer or employee of the city such additional statement or statements relating to the expenditures and revenues of the city as it may deem essential, and to summon any officer or employee of the city to be present at any designated meeting of said committee; and to remain in attendance until discharged by the committee; and any officer or employee who shall fail or refuse to comply with such request, order or summons, may be reported to the City Council or either branch thereof, for such action as it may have the power to take and see fit to exercise.

Sect. 5. The Committee on appropriations shall make a final report in print, not exceeding two hundred copies, to the City Council or either branch thereof, on or before the fifteenth day of February of each year unless granted further time by the City Council.

Sect. 6. All ordinances or parts of ordinances conflicting with this ordinance are hereby repealed. [Approved January 1, 1898.

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF AN INSPECTOR OF WIRES AND DEFINING THE DUTIES OF SUCH OFFICER, IN ACCORDANCE WITH CHAPTER FOUR HUNDRED AND FOUR, ACTS OF 1890.*

Be it ordained, etc., as follows:

Section 1. Within thirty days after the passage of this Ordinance, there shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen, an Inspector of Wires for the City of Lowell, who shall enter upon the duties of his office immediately, and shall hold said office, unless sooner removed, until the first day of February, 1901, and prior to the first day of February, 1901, and prior to the first day of February of every third year thereafter, there shall be appointed in like

*Now Chapt. 122, Revised Laws.

manner an Inspector of Wires who shall hold his office during a term of three years and until his successor is appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Inspector of Wires shall perform the duties prescribed by Section 3, Chapter 404 of the Acts of 1890,* and such other duties as are or may be hereafter prescribed by the laws of the Commonwealth or the ordinances of the city. He shall annually in the month of January make a report to the City Council of the business of his office for the year ending the thirty-first day of December next preceding. [Approved July 15, 1898.]

AN ORDINANCE RELATING TO THE PERMANENT REPAIRS ON STREETS
AND THE PLACING OF UNDERGROUND SERVICES THEREIN; ALSO
TO THE NECESSARY REPAIRS OF SAME.

Be it ordained, etc., as follows :

Section 1. That before any street is paved with granite, concrete or other paving, macadamized or otherwise put in permanent repair by the city, the owners of land abutting on such street shall be notified at least four weeks previous to the time when such permanent improvements are to be commenced, that all underground services, whether for sewer, water, gas, electrical or other connections, shall be constructed and placed in said street previous to the date set for the making of said permanent improvements.

Sect. 2. That all corporations or individuals having services laid in said street, or intending or desiring to construct the same, whether for gas, electric, telephone, telegraph, or for any service of whatsoever nature, or who shall desire to renew or repair services already constructed, shall be notified by the posting of a notice at the City Hall of the intention of the city to so repair such street, and by a notice which shall be published for six consecutive days in one morning and one evening newspaper printed in the city of Lowell, the last publication of said notice to

be at least three weeks previous to the time stated for making said permanent improvements.

Sect. 3. That when any street has been so paved, macadamized, or otherwise put in permanent repair, it shall not be opened or torn up for the placing of any new underground construction of any nature whatsoever during five years next succeeding the date in said published and posted notices stating the intention of the city to place said street in permanent repair ; provided, however, that in case repairs to any service become necessary, the same may be made after a permit has been granted by the Board of Aldermen, and said repairs shall be made under the supervision of the Superintendent of Streets. In case of leakage of gas or water pipes, the same may be repaired at once by the Gas Company or Water Board, and the surface of the street placed in a condition satisfactory to the Superintendent of Streets.

Sect. 4. Wherever on said street there may be unimproved land, and where no sewer, gas, water or other necessary services have been constructed, the same shall be laid and constructed, to a point at least two feet beyond the outside line of the sidewalk on said street, one each of the services mentioned for gas, water and sewer connections, for each fifty feet of frontage of the said land on said street, or at such distances as may be agreed upon by the owner of said land and the Superintendent of Streets. In case of neglect of the owner or of a corporation or individual to construct the same, said service for sewer, water and gas connections may be constructed by the city, and shall be paid for by the parties to whom rightfully belongs the construction of the same.

Sect. 5. Any violation of the foregoing conditions in regard to the digging up of streets shall be punished by a fine of not less than twenty dollars (\$20).

Sect. 6. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved August 5, 1898.

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF A SUPERINTENDENT AND ASSISTANT SUPERINTENDENT OF STATE AID.

Be it Ordained, etc., as follows :

Section. 1. Within thirty days after the passage of this ordinance there shall be appointed by the Mayor, subject to confirmation of the Board of Aldermen, a Superintendent of State Aid and an Assistant Superintendent of State Aid for the City of Lowell, who shall enter upon the duties of their offices immediately and shall hold said offices, unless sooner removed, until the first day of February, 1899; and prior to the first day of February, 1899, and prior to the first day of February of every year thereafter, there shall be appointed in like manner a Superintendent of State Aid and an Assistant Superintendent of State Aid, who shall hold their offices during the term of one year and until their successors are appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Superintendent of State Aid shall disburse state aid and city aid under the direction of the Mayor and Board of Aldermen as prescribed by *Chapter 279 of the Acts of 1893, *Chapters 279 and 301 of the Acts of 1894, *Chapter 279 of the Acts of 1895, *Chapter 561 of the Acts of 1898, or any other laws of the Commonwealth, or that may be hereafter prescribed by the ordinances of the city. He shall annually, in the month of January, make a report to the City Council of the business of his office for the year ending on the thirty-first of December next preceding.

Sect. 3. Said Assistant Superintendent of State Aid shall perform such duties as may be prescribed by the Superintendent of State Aid. [Approved September 27, 1898.

*Now Chapt. 79, Revised Laws.

AN ORDINANCE AMENDING SECTION SIX OF CHAPTER NINE OF THE
REVISED ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

That Chapter 9 of the Revised Ordinances of the City of Lowell be amended by striking out Section 6 and substituting therefor the following :

Sect. 6. The City Treasurer shall receive and have the care and custody of all sums of money paid the city by persons for the perpetual care of lots in any of the city cemeteries, and give the vouchers of the city therefor, and money so received shall constitute a special fund to be known as the "Cemetery Fund for the perpetual care of lots." The Treasurer shall not receive a sum of money less than one hundred dollars (\$100.00) for the perpetual care of lots in any of the city cemeteries or public burial grounds. The Treasurer shall notify the Superintendent of the cemetery of all such payments, together with the description of the lots and graves on account of which such payments are made, and annually, at such time as the Trustees of Public Burial Grounds request, shall pay over to them four per centum as interest upon all sums so paid to and receipted by him. The Treasurer shall invest the moneys of this fund in securities in which by law the funds of savings banks may be invested, and pay the amount of interest realized thereon into the City Treasury. [Approved October 11, 1898.

AN ORDINANCE RELATING TO THE CONSTRUCTION AND REPAIR OF
BUILDINGS.

Be it ordained etc., as follows :

Section 1. Before the repair, erection, construction or material alteration of any building, the owner, architect or builder thereof shall file with the Superintendent of Buildings a statement in writing, giving the intended location of such building, its dimensions, materials, manner of construction and estimated cost. If such a building is to be repaired,

erected or materially altered within the fire limits of the city, such owner architect or builder shall, in addition to the statement aforesaid, submit for examination full specifications and plans of the proposed repairs, buildings or alterations; the owner or contractor shall also sign an agreement that the proposed work shall be done in accordance with the description set forth in such plans, specifications and statement, and all such matters and things connected with such work shall be done in strict compliance with this chapter. If it appears from said statement, plans and specifications that the building to be erected, altered or repaired will conform to the provisions of this chapter, so far as applicable thereto, then the Superintendent of Buildings shall issue a permit. No person shall repair, construct or materially alter any building without such permit.

Sect. 2. The Superintendent of Buildings shall furnish suitable blanks upon which applications shall be made; and such applications shall be recorded by the Assessors in a book provided for the purpose, each page of which shall be a duplicate of such application for the erection, construction or material alteration of any building in the City of Lowell after the passage of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 29, 1898. (Amended 1901.)]

AN ORDINANCE RELATING TO THE ASSESSMENT OF TAXES IN THE CITY
OF LOWELL.

Be it ordained, etc., as follows :

Chapter 3 of the Revised Ordinances of 1894 is hereby amended by striking out all after Section 1 of said chapter, and substituting in place thereof the following ;

Sect. 2. The Board of Assessors shall annually, in the month of January, or as soon as practicable thereafter, organize, by choosing one of

their number to act as chairman ; said chairman shall not receive extra compensation, and all members of the board shall devote their whole time to the service of the city.

Sect. 3. It shall be the duty of the Assessors of Taxes to complete their assessments and place the list of taxes in the hands of the Collector of Taxes on or before the first day of September, annually ; and they shall, on or before the first day of September, annually, indicate on said list the residence of the several taxpayers for that year and the year next preceding.

Sect. 4. When any tax shall be abated in whole or in part by the Assessors of Taxes, they shall make a record thereof in a book to be kept by them for that purpose, which record shall contain the names of all persons whose taxes may be so abated, and the reasons for such abatement ; and they shall also annually, in the month of January, make out and transmit to the City Council a full report of the work of their board, said report to show the total valuation of the city, amount of real estate, amount of personal estate, total corporation valuation in detail, total valuation in bank stock, street-watering assessment, number of polls, name, amount and reason of any abatement of taxes and such other items as may be of interest to the public. Said figures to be in a column parallel to a column containing the figures of the preceding year.

Sect. 5. The Assessors shall annually, on the thirty-first day of December, report to the Auditor, all abatement of taxes made by them during the year ending on said day distinguishing the abatements made on the different years' taxes, and whether abated before or after collection.

Sect. 6. The Assessors shall have full power to hire as many temporary clerks, not to exceed six, as may be necessary to assist them in the performance of their duties, the compensation of said clerks not to exceed two dollars and fifty cents per day, and they shall only be employed during the months of May to September inclusive. Provided, however, that permanent clerks, not to exceed two, one to be known as chief clerk, may be employed the whole year at such compensation as the board may determine. They shall also have the power to employ six temporary assistants during the months of May and June for the purpose of obtain-

ing the list of polls and incidental personal property, compensation not to exceed three dollars per day. Said Assistant Assessors shall be appointed by the Mayor, subject to conformation by the Board of Aldermen and Common Council.

Sect. 7. This ordinance shall take effect upon its passage. [Approved February 28, 1899.

AN ORDINANCE ESTABLISHING AN INSPECTION OF WIRES DEPARTMENT,
AND GOVERNING THE SAME.

Be it ordained, etc., as follows :

Section 1. An Inspection of Wires Department is hereby established, of which the Inspector of Wires shall be the head.

Sect. 2. The Inspector of Wires shall have supervision of all electric and other wires erected upon, over or under any street, way or building, and of every wire within any building where such wire is designed to carry an electric current, and shall have authority over, and shall inspect such wires, their condition, attachments, insulation, supports and appliances ; he shall require all persons and corporations owning or operating wires to place and arrange all posts, arms, fixtures, insulating supports, attachments and appliances so as to secure safety to life and property, and shall see that the provisions of *Chapter 404 of the Acts of 1890 and all other laws, ordinances and regulations relating to electric and other wires are strictly enforced, and shall give prompt notice to any person or corporation owning or operating any such wire, when in his judgment the same is unsafe, or is not placed, kept and maintained in accordance with the requirements of said chapter or the provisions of any other law, ordinance or regulation.

Sect. 3. Said inspector shall, at least once in each year, inspect all posts supporting electric or other wires upon or over any street or build-

*Now Chapt. 122, Revised Laws.

ing, and all supports of such wires when attached to buildings, and ascertain if said posts and supports are kept in proper condition and not weakened by decay or other causes; and in case any person or corporation owning, leasing, or operating wires shall neglect or refuse to maintain said supports in proper condition for safety, the inspector shall cause said fixtures and supports to be put in proper condition at the expense of the person or corporation owning or operating the same, after first giving the person or corporation due notice in writing of his intended action.

Sect. 4. It shall be the duty of the inspector to cause to be removed all dead wires of whatever nature, attached to buildings, if, in his judgment, they are in a dangerous condition or liable to become dangerous to life or property, and he shall notify in writing the person or corporation owning, leasing or operating such wires of his desire for the removal of any wire, and give them at least ten days in which to comply with the requirements, except in cases in which, in his judgment, there is immediate liability of injury to person or property from the wire and in all such cases the notice shall require their removal forthwith. In the event of the refusal of any person or corporation to take proper action, the inspector may cause the work to be done and the expense to be charged to the owners.

Sect. 5. No person or corporation shall allow any piece of wire to be left on the surface of any street or sidewalk, or to permit unused fixtures, coils or loose ends of wire to remain attached to any cross-arm or post more than twenty-four hours without special permission.

Sect. 6. Every person or corporation operating electric or other wires over or under any street, way or building in the city, upon request of the inspector shall furnish within fifteen days thereafter accurate lists of the posts or other supports of their wires, the location of conduits and manholes, with information as to location, where, and what service is rendered, whether telegraphic, telephonic, power or electric lighting, and in the latter case, whether arc or incandescent current is used.

Sect. 7. The said inspector, upon request, shall also be furnished by any person or corporation operating or owning electric wires with such information as to kind, size and tested strength of supporting

or service wires, the maximum volts used, together with such other information as may be necessary to the faithful and effectual discharge of his duties.

Sect. 8. All wires, appliances and apparatus in the interior of public buildings or on private premises which are intended for the transmission of electricity, either for isolated lighting or power, or to be connected with an outside circuit, shall be made, placed and arranged, and at all times kept safe to the satisfaction of the inspector; and said inspector may at all proper and reasonable times have access to such wires and apparatus.

Sect. 9. In no case shall a current of electricity be connected to any system of wiring or apparatus intended to be used for power or lighting, without permission first being obtained and a written permit granted by the Inspector of Wires; the jurisdiction of the inspector is intended to include all public and private electrical systems that are now and may hereafter be installed in the City of Lowell.

This ordinance is not intended to govern or call for the inspection of electric bell systems, private or public telephones inside of public or private buildings, or the interior apparatus or boxes of the fire alarm or police system of the city.

Sect. 10. No person or corporation shall change the position or make additions to any wiring system, or install any new work or electrical apparatus without first notifying the inspector, and he given full opportunity to inspect the same before such work is completed; and when any electric wires designed to carry an electric light or power current are to be concealed, the inspector must be notified before work is commenced, and he shall give his permission and approval for all such work and connections immediately, unless in his judgment such apparatus or wiring endangers life or property or is not in accordance with the laws and ordinances, or in conformity with the established insurance rules.

Sect. 11. The inspector shall require that the established rules and regulations of the National Board of Fire Underwriters shall be complied with, both for outside and interior construction.

Sect. 12. It shall be the duty of the Inspector of Wires to carry out any order of the Mayor and Board of Aldermen on any matters referred to him by them, coming under the laws or ordinances, and all questions of right and authority shall be determined by the Mayor and Board of Aldermen upon any appeal or refusal of any person or corporation to comply with the requirements of the inspector and the laws and ordinances.

Sect. 13. The inspector of Wires shall keep a record of all inspections and permits in a book provided for the purpose and this book shall be open to inspection (at all reasonable times) by any interested parties.

The Inspector shall make monthly reports of his doings to the Mayor and Board of Aldermen, and an annual report to the City Council.

Sect. 14. Whoever violates or fails to comply with any of the provisions of this ordinance after being duly notified in writing by the inspector shall forfeit and pay for each offence not less than ten or more than twenty dollars.

Sect. 15. The Inspector of Wires shall be on duty eight hours per day, from 9 A. M. till 5 P. M. each regular working day, and at such other times as cases of emergency may require, and shall receive such compensation as may be determined by the City Council. Said inspector shall devote his whole time to the service of the city, and shall engage in no other business or calling. [Approved July 26, 1899.]

AN ORDINANCE TO PROVIDE FOR THE ELECTION OF A CITY PHYSICIAN
AND DEFINING HIS DUTIES. (Repealed 1905.)

Be it ordained, etc., as follows:

Section 1. There shall be chosen immediately after the approval of this ordinance and thereafter annually in the month of March or April,

and whenever a vacancy occurs, by concurrent vote of both branches of the City Council, a City Physician, who shall enter upon the duties of his office on the first day of May in each year and until his successor is chosen, unless sooner removed therefrom in the manner provided by law.

Sect. 2. It shall be the duty of the City Physician to attend upon all patients under the care of the city authorities at the City Farm or Police Station; to make a report annually in April to the City Council covering the services rendered by him during the previous year. In case of an alarm by any infectious or contagious disease to give to either branch of the City Council or any committee thereof all such professional advice and counsel as they may request of him, and generally to perform such other professional services as may reasonably be required of him by the Mayor or the City Council, or the Superintendent of the City Farm.

Sect. 3. Chapter 12 of the Revised Ordinances is hereby repealed.
[Approved June 27, 1900.]

AN ORDINANCE PROHIBITING HEAVY TEAMING AND TRUCKING UPON
THE SPEEDWAY PORTION OF THE PAWTUCKET BOULEVARD.

Be it ordained, etc., as follows:

Section 1. The driving or drawing of heavy wagons, carts, trucks or similar vehicles used for the purposes of transportation of stone, lumber, coal, ice, express packages, groceries, or other merchandise requiring for the transportation of the same a vehicle exceeding in weight a family carriage, buggy, carry-all or similar vehicle used principally for pleasure driving or recreation, is hereby prohibited upon that portion of Pawtucket Boulevard commonly called the Speedway; provided, however, that this prohibition shall not apply to any vehicle used for the purpose of transporting any article or material necessary for the improvement or repair of said speedway, or of any portion of said boulevard, or of the structures connected with the water plant in said boulevard.

Sect. 2. Any person who shall violate any provision of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars for each offense. [Approved July 31, 1900.

AN ORDINANCE PROVIDING FOR THE PRINTING OF THE UNION LABEL
ON ALL PRINTING FOR THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Section 1. That all printed matter for the City of Lowell shall hereafter bear the imprint of the Union Label of the Allied Printing Trades Council of Lowell, Mass.

Sect. 2. That in calling for bids for city printing hereafter, the Chief of the Department of Supplies shall make stipulation in accordance with Section 1 of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 15, 1900.

AN ORDINANCE ESTABLISHING THE OFFICE OF CLERK OF COMMITTEES.

Be it ordained, etc., as follows :

Section 1. There shall be a Clerk of Committees, to be chosen by concurrent vote of both branches of the City Council as soon as may be after the enactment of this ordinance, who shall enter upon the duties of his office immediately after his election, and hold the same for a period of three years from and after January 1, 1901, and until his successor is elected and qualified. Thereafter the City Council shall, in the month of

January following the expiration of each three-year term, choose a Clerk of Committees who shall hold office for three years. Such Clerk of Committees shall receive such compensation as the City Council shall determine.

Sect. 2. He shall make a proper record in books kept for the purpose, of all proceedings and transactions, and keep a calendar of all meetings of the committees of which he is clerk. He shall perform such other duties and services, in making estimates and computations, drawing orders and reports, and rendering assistance, as such committees shall require.

Sect. 3. On the request of the chairman of any committee, the said Clerk of Committees shall authorize the City Messenger to notify all committee members of the time and place of meeting.

Sect. 4. This ordinance shall take effect upon its passage. [Passed December 18, 1900.

AN ORDINANCE RELATING TO ADVERTISING BILLS AND POSTERS.

Be it ordained, etc., as follows:

Section 1. No person, firm or corporation shall distribute or cause to be distributed in or upon any street, way, common or place within the limits of the City of Lowell, or post or cause to be posted on any billboard, fence, wall or structure, or shown in windows, any card, circular, bill, lithograph, or advertisement whatsoever, containing any cut, photograph, painting or pictorial representation of any kind, for the purpose of advertising or calling attention to any show, circus, play or exhibition, whether given, or to be given, within or without the City of Lowell, without having first submitted the same to the Supt. of Police and obtaining his approval thereof, and of such distributing or posting. And no such card aforesaid, bill or advertisement shall be distributed or posted, as aforesaid, without having attached thereto or printed or pasted

thereon, a statement that it has been approved by the Supt. of Police of Lowell, and the date of such approval.

Sect. 2. Whoever violates the provisions of this ordinance, shall, on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 27, 1901.

(Amended, ordinance 1902.)

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "AN ORDINANCE
RELATING TO THE CONSTRUCTION OF BUILDINGS."

Be it ordained, etc., as follows :

That an ordinance entitled, "Relating to the construction and repair of buildings" be and the same is hereby amended by striking out the third section thereof and inserting in place thereof the following sections :

Sect. 3. Any person who shall violate any provisions of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars (\$20.00) for each offence.

Sect. 4. This ordinance shall take effect upon its passage. [Approved December 27, 1901.

AN ORDINANCE RELATING TO THE APPROVAL OF BILLS AND CLAIMS
PAYABLE FROM THE APPROPRIATION FOR INCIDENTALS.

Be it ordained, etc., as follows :

Section 1. Every bill and claim against the city which, if correct, would be chargeable to the Appropriation for Incidentals, shall, before being passed by the Committee on Accounts, be submitted to the Mayor, who shall examine the same and endorse thereon a statement that he does or does not object to the payment of the same or any of the items thereof. He shall then return such bill or claim to the City Auditor or the Committee on Accounts, and if he objects to the payment of said bill or claim, in whole or in part, he shall submit to said auditor or to said committee with said bill when so returned, a specific statement in writing signed by him of his objections thereto and his reasons for such objection. [Approved December 27, 1901.

AN ORDINANCE RELATING TO SHADE TREES ON THE PUBLIC STREETS
OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

First. That no person or corporation shall be allowed to remove any shade trees on the streets of the City of Lowell without first filing a petition requesting authority for the removal of the same from the City Council of said city.

Second. All petitions for the removal of shade trees on the streets of Lowell shall be referred to the aldermanic members of the Committee on Streets of the City of Lowell.

Third. That the aldermanic members of the Committee on Streets shall constitute and be known as the Committee on Shade Trees.

Fourth. That on the presentation of a petition for the removal of a shade tree as aforesaid and after its reference to the Committee on Shade Trees, they shall cause a notice to be posted on the tree by the Superintendent of Streets or by some person authorized by him, said notice to set forth that a petition for the removal of the tree upon which the notice has been posted has been filed ; said notice shall also give the time and place where all persons interested can be heard at a public hearing by said committee. The above notice shall be posted on the tree at least seven days before the time set for the hearing.

Fifth. That the Superintendent of Streets or the Committee on Shade Trees shall not authorize the removal of any shade tree in the City of Lowell except in accordance with the preceding sections. In case where the Superintendent of Streets or the Committee on Shade Trees are satisfied that public necessity by reason of danger to life and property requires the immediate removal of a shade tree, the superintendent or said Committee may authorize such removal without complying with the conditions named in the preceding sections.

Sixth. Any person or corporation violating this ordinance or any provisions of the same, shall be punished for each offence by a fine not exceeding twenty dollars.

Seventh. All ordinances or parts of ordinances inconsistent herewith are hereby repealed. [Approved December 27, 1901.

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "RELATING TO ADVERTISING BILLS AND POSTERS."

Be it ordained, etc., as follows :

That the Ordinance entitled "Relating to advertising bills and posters," passed by the City Council and approved by the Mayor December 27, 1901, be and is hereby amended by striking out all after the enacting clause and inserting in place thereof, the following :—

Section 1. No person, firm or corporation shall distribute, or cause to be distributed in or upon any street, way, common or place within the limits of the City of Lowell, or post or cause to be posted on any billboard, fence, wall or structure, or shown in windows, any card, photograph, painting or pictorial representation of any kind for the purpose of advertising or calling attention to any burlesque show, whether given or to be given within or without the limits of the City of Lowell; nor shall any person, firm or corporation distribute or cause to be distributed within the limits of the City of Lowell any pamphlet or circular containing advertisements therein or aphrodisiac cures, without having first submitted the same to the Superintendent of Police and obtaining his approval of such posting and distributing. And no such card, bill, pamphlet, circular or advertisement aforesaid shall be posted or distributed without having attached thereto, or printed or pasted thereon, a statement that it has been approved by the Superintendent of Police of the City of Lowell, and the date of such approval.

Sect. 2. No person, firm or corporation shall throw, deposit, drop or leave, nor cause to be thrown, deposited dropped or left in any highway or upon the doorsteps or within the hallway of any dwelling house within the limits of the City of Lowell, any sample of medicinal or toxic substance, either in package or bulk and shall leave such sample of medicinal or toxic substance in a dwelling house only with the consent and approval and in the possession of an adult occupant.

Sect. 3. Whoever violates the provisions of this ordinance shall, on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Sect. 4. This ordinance shall take effect upon its passage. [Approved 1902.

AN ORDINANCE REGULATING THE OPERATION OF MOTOR CYCLES IN
THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Section 1. No motor cycle shall be ridden upon the streets, avenues,

boulevard, parks or commons of the City of Lowell, unless the motor of such cycle shall be fully covered and provided with mufflers designed expressly to deaden the noise of a motor cycle.

Sect. 2. Any person who violates the provisions of the preceding section, shall be punished by a fine not exceeding ten dollars for each offence.

Sect. 3. This ordinance shall take effect upon its passage. [Approved 1902.

AN ORDINANCE OFFICIALLY DESIGNATING CITY INSTITUTION BUILDINGS
IN CHELMSFORD STREET AS THE LOWELL CITY HOSPITAL AND
ALMSHOUSE.

Be it ordained, etc., as follows :

That the City Institution buildings located in Chelmsford Street be designated and hereafter known as the Lowell City Hospital and Alms-house.

This ordinance shall take effect upon its passage. [Approved April 10, 1903.

AN ORDINANCE AMENDING SECTIONS 12 AND 16 OF CHAPTER 39 OF THE
REVISED ORDINANCES.

Be it ordained, etc., as follows :

That Section 12 of Chapter 39 of the Revised Ordinances be amended by striking out the words " board of aldermen " in the fifth and sixth

lines of said section, and inserting instead thereof the words "Superintendent of Streets;" and that Section 16 of said chapter be amended by striking out the words "Superintendent of Streets," and by striking out the word "they" in the fourth line and inserting instead thereof the words "board of aldermen;" so that said section shall read as follows:

Sect. 12. No person shall break or dig up the ground in any street, townway, highway, or common and public passageway, in the city, nor erect any staging for building thereon, or pile or deposit thereon any earth, bricks, lumber or other building material, without a written license from the Superintendent of Streets, and without faithfully complying with the conditions of such license.

Sect. 16. In all cases in which license may be given by the Superintendent of Streets to obstruct any highway, street, townway, or passageway as described in the twelfth section of this chapter, the Board of Aldermen may impose such reasonable conditions and limitations with regard to the erection of barricades, the maintaining of lights and the taking of other precautions for the security of travellers and passengers as they may consider necessary.

This ordinance shall take effect upon its passage. [Approved October 9, 1903.]

AN ORDINANCE AUTHORIZING THE SUPERINTENDENT OF POLICE TO
PARTITION OFF STREETS, WAYS OR SIDEWALKS FOR THE PROTECTION OF THE PUBLIC.

Be it ordained, etc., as follows:

Section 1. For the protection and safety of the public, the Superintendent of Police is authorized to partition off with rope, wire or other material, any portion or portions of any street, way or sidewalk within the limits of the City of Lowell on the occasion of any public observance, celebration or procession, or upon any other occasion when, in the opinion of the said Superintendent of Police, it becomes necessary.

Sect. 2. This ordinance shall take effect upon its passage [Approved October 9, 1903.

AN ORDINANCE TO PROVIDE FOR THE ELECTION OF A CITY PHYSICIAN
AND DEFINING HIS DUTIES.

Be it ordained, etc., as follows :

Section 1. There shall be a City Physician, to be chosen by concurrent vote of both branches of the City Council as soon as may be after the enactment of this ordinance, who shall enter upon the duties of his office upon December 1, 1905, and hold the same, unless sooner removed therefrom in the manner provided by law, for a period of three years from and after said December 1, 1905, and until his successor is elected and qualified. Thereafter the City Council shall, in the month of October or November immediately preceding the expiration of each three-year term, choose a City Physician who shall hold office for three years from the first day of December following and until his successor is chosen and qualified, unless sooner removed therefrom in the manner provided by law. Whenever a vacancy occurs the City Council shall choose a city physician who shall fill the remainder of the unexpired term, unless sooner removed in the manner provided by law.

Sect. 2. It shall be the duty of the City Physician to attend upon all patients under the care of the city authorities at the City Farm or Police Station ; to make a report annually in April to the City Council covering the services rendered by him during the previous year. In case of an alarm by an infectious or contagious disease to give to either branch of the City Council or any committee thereof all such professional advice and counsel as they may request of him, and generally to perform such other professional services as may be reasonably required of him by the Mayor or the City Council, or the Superintendent of the City Farm.

Sect. 3. The ordinance approved June 27, 1900 entitled "An Ordinance to provide for the election of a City Physician and defining his duties" is hereby repealed, said repeal to take effect December 1, 1905.

Sect. 4. This ordinance shall take effect upon its passage. [Approved December 9, 1905.]

AN ORDINANCE AMENDING SECTION THIRTEEN OF CHAPTER FIVE OF
THE REVISED ORDINANCES OF THE CITY OF LOWELL.

Be it ordained etc., as follows :

That section 13 of chapter 5 of the Revised Ordinances of the City of Lowell be amended by inserting it the twelfth line, after the word "buildings" the words "except those of steel construction"; and by adding to the end of said section 13 the following words: "Buildings of steel construction shall be erected in accordance with the Fire Underwriters Code", so as to read as follows :

Section 13. The exterior and party walls of all buildings hereafter erected, wholly or in part within said district, shall be built of brick, stone, iron or other hard and incombustible material. All such walls when constructed of brick, stone, or other incombustible substance, shall be solidly and firmly laid in mortar or cement, and shall not be less than eight inches thick, and the roof shall be securely covered with slate, tin, gravel or other incombustible material. And if the building is more than thirty-two feet in height, then the walls to the height of the first story shall not be less than sixteen inches thick, and those above the first story not less than twelve inches. In all three story buildings, except those of steel construction, the walls of the first two stories shall not be less than sixteen inches thick. Buildings of steel construction shall be erected in accordance with the Fire Insurance Underwriters Code. [Approved February 9, 1906.]

AN ORDINANCE TO CREATE A COMMISSION TO ACQUIRE A SITE AND TO
RE-BUILD HUNTINGTON HALL.

Be it ordained, etc., as follows :

Section 1. There shall be chosen in the manner hereinafter provid-

ed, four citizens of Lowell who shall hold no other municipal office, who, together with the mayor for the time being, ex-officio, shall constitute a commission to be known as the Huntington Hall Commission. The members of said commission shall not receive any salary or emolument for their services, and shall, unless sooner removed in the manner provided by law, hold their respective offices until the completion of the building hereinafter mentioned, and upon the declaration by the mayor in writing filed with the city clerk that the work contemplated by this ordinance has been fully completed, the authority of said commission shall cease and determine.

Sect. 2. Within thirty (30) days after the enactment of this ordinance, the Board of Aldermen and the Common Council shall meet in joint convention and elect four persons as above specified to be members of said commission. If any member so elected shall decline to serve, or if by the death, resignation or removal from office of any member of said commission a vacancy shall exist, the city Council shall, in joint convention, elect a new member to fill such vacancy.

Sect. 3. Said commission shall have the general charge and management of all matters pertaining to the erection of a new public hall to take the place of Huntington Hall recently destroyed by fire; shall select and purchase or otherwise acquire a site therefor, and shall do, or cause to be done, all things necessary for the erection of a suitable and commodious public hall with such appurtenances and furnishings as they may deem proper. They shall make all contracts in relation thereto except for the purchase of material and supplies, but no contract so made involving the expenditure of more than three hundred dollars(\$300) shall be valid and binding upon the city until approved by the mayor in writing; and no expenditure shall be made by said commission under the authority of this ordinance until the city council has duly voted an appropriation therefor.

Sect. 4. The chairman of the board of aldermen and the president of the common council shall constitute a committee to submit to said joint convention a list of four names as nominees for commissioners; such names shall be voted on separately, and in case of failure to elect any one or more of the persons so named, new names shall be submitted by said committee until four persons shall have been elected, who, together with the mayor, shall constitute such commission. [Approved May 15, 1906.]

Population, Legal Voters, Etc., by Wards.

Wards	Census 1905	Precincts	REGISTERED VOTERS									VOTES FOR	
			Dec. 1904			Nov. 1905.			Dec. 1905			MAYOR	
			City Election			State Election			City Election			1905	
			Males	Females	Total	Males	Females	Total	Males	Females	Total	Casey	Farnham
1		1	489	17	506	445	15	460	463	15	478	183	217
		2	471	14	485	438	14	452	457	17	474	213	178
		3	367	6	373	330	6	336	337	6	343	172	138
9	295		1327	37	1364	1213	35	1248	1257	38	1295	568	533
2		1	330	8	338	291	7	298	313	7	320	188	88
		2	366	11	377	333	8	341	349	10	359	258	74
		3	466	6	472	431	6	437	456	6	462	345	65
13	672		1162	25	1187	1055	21	1076	1118	23	1141	791	227
3		1	513	21	534	470	13	503	503	18	521	308	149
		2	619	8	627	653	7	660	662	8	670	167	393
		3	702	10	712	661	9	670	672	9	681	122	458
10	083		1864	39	1903	1804	29	1833	1837	35	1872	597	1000
4		1	485	1	486	455	1	456	474	1	475	276	145
		2	530	2	532	529	2	531	542	2	544	345	151
		3	682	0	682	643	0	643	663	0	663	498	119
9	092		1697	3	1700	1627	3	1630	1679	3	1682	1119	415
5		1	399	8	407	363	8	371	377	9	386	225	126
		2	544	9	553	529	9	538	542	9	551	365	127
		3	438	6	444	426	4	430	444	4	448	320	78
9	802		1381	23	1404	1318	21	1339	1363	22	1385	910	331
6		1	743	65	808	731	63	794	740	63	803	206	457
		2	523	17	540	490	14	504	500	14	514	248	203
		3	674	19	693	675	18	693	698	18	716	384	229
18	103		1940	101	2041	1896	95	1991	1938	95	2033	838	889
7		1	676	11	687	633	7	640	649	37	686	251	318
		2	782	66	848	785	64	849	801	190	991	380	347
		3	829	24	853	844	22	866	862	99	961	357	416
8	395		2287	101	2388	2262	93	2355	2312	326	2638	988	1081
8		1	775	9	784	744	9	753	752	11	763	132	551
		2	864	6	870	844	6	850	855	6	861	158	612
		3	727	5	732	707	5	712	719	5	724	267	352
8	566		2366	20	2386	2295	20	2315	2326	22	2348	557	1515
9		1	532	74	606	593	63	566	513	81	594	243	209
		2	619	102	741	628	90	718	638	129	767	291	310
		3	881	10	891	879	10	889	906	103	1009	448	375
*9	372		2052	186	2238	2010	163	2173	2057	313	2370	982	894
96	380		16076	535	16611	15480	480	15960	15887	877	16764	7350	6885

POPULATION OF THE CITY OF LOWELL.

Year	Population	Year	Population	Year	Population	Year	Population
1828	3,532	1840	20,981	1865	30,990	1890	77,696
1830	6,477	1844	25,163	1866	36,878	1895	84,359
1832	10,254	1846	29,127	1870	40,928	1900	94,969
1833	12,963	1850	33,383	1875	49,688	1905	94,889
1836	17,633	1855	37,554	1880	59,485	1906	*96,380
1837	18,010	1860	36,827	1885	64,107	.....	.....

*1491 Annexed from Tewksbury.

CITY OFFICERS

WHEN ELECTED OR APPOINTED

"All officers elected or appointed by the City Council, or either branch thereof, shall hold their offices according to the tenure of the same and until their successors are chosen and qualified, unless otherwise provided for. City Charter, Sec. 17.

AGENT OF THE BOARD OF HEALTH

Appointed by the Board of Health under civil service rules.

ASSESSORS OF TAXES—Three

One chosen in the month of January or February by concurrent vote of the City Council for the term of three years. Ordinances, Chapter 3, Sect. 1.

ASSISTANT ASSESSORS—Six

Appointed by the Assessors for May and June. Ordinance approved Feb. 28, 1899

ASSISTANT ENGINEERS OF THE FIRE DEPARTMENT—Four

Appointed by the Mayor and Aldermen in March or April, the first assistant for a term of three years, the others for one year, commencing May first. Ordinance approved Nov. 27, 1896

AUDITOR OF ACCOUNTS

Chosen by concurrent vote of the City Council in January or February, for three years, commencing the first Monday in April. Chap. 373, Acts of 1905

ASSISTANT CITY CLERK

Appointed by the City Clerk, subject to confirmation by the Board of Aldermen. Ordinances, Chap. 8, Sec. 2

BOARD OF CHARITIES—Five

One member appointed annually by the Mayor for the term of five years from Jan. 15. Chap. 337, Acts of 1905

BOARD OF EXAMINERS OF PLUMBERS—Three

One member appointed by the Board of Health for the term of one year, commencing May first. The chairman of the Board of Health and the Superintendent of Public Buildings are members of the Board, ex-officio. Ordinances, Chap. 28, Sec. 6

BOARD OF HEALTH—Three

One member appointed by the Mayor and Aldermen in January for the term of three years, commencing the first Monday in February. Revised Laws, Chap. 75, Sec. 9

BOARD OF PARK COMMISSIONERS—Five

One member appointed annually by the Mayor with the approval of the City council for a term of five years from the first Monday in May. Revised Laws, Chap. 28

BOARD OF POLICE—Three

One member appointed by the Mayor every two years for the term of six years, commencing the first Monday in June. Chap. 428, Acts of 1894. Chap. 187, Acts of 1895

CHAIRMAN OF THE BOARD OF ALDERMEN

Chosen by the Board of Aldermen on the first Monday in January, or as soon thereafter as may be. City Charter, Sec. 12

CHIEF ENGINEER OF THE FIRE DEPARTMENT

Chosen by concurrent vote of the City Council in March or April for the term of three years, commencing May first. Chap. 95, Sec. 2, Acts of 1897. Ordinance approved Nov. 27, 1896.

CITY CLERK

Chosen annually by the City Council in convention, as soon after organization as convenient. City Charter, Sec. 17

CITY MESSENGER

Chosen by concurrent vote of the City Council in January for the term of one year, commencing the first Monday in Feb. Ordinances, Chap. 10, Sec. 1

CITY PHYSICIAN

Chosen in October or November by concurrent vote of the City Council for three years, commencing December first. Ordinances, 1905

CITY SOLICITOR

Chosen by concurrent vote of the City Council in January or February for the term of one year, commencing March first. Ordinances, Chap. 11, Sec. 1

CITY TREASURER AND COLLECTOR OF TAXES

Chosen annually by the City Council in convention as soon after organization as convenient, for the term of one year commencing April first. City Charter, Sec. 17, Ordinances Chap. 9, Sec. 1

CIVIL ENGINEER FOR THE CITY

Chosen by concurrent vote of the City Council in January or February for a term of one year, commencing April first. Ordinances, Chap. 13, Sec. 1

CIVIL SERVICE EXAMINERS—Three

Appointed by the State Civil Service Commissioners

CLERK OF COMMITTEES

Chosen by concurrent vote of the City Council in January, for three years. Ordinances, 1900

CLERK OF COMMON COUNCIL

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. City Charter, Sec. 14

CLERKS EMPLOYED IN DEPARTMENTS

Appointed by heads of departments under civil service rules. Chapter 415, Sec. 5, Acts of 1896

CLERK OF WATER BOARD

Chosen by the Water Board in June for the term of one year. Ordinances, Chapter 45, Section 2

COMMISSIONERS OF SINKING FUNDS—Three

One chosen in December by concurrent vote of the City Council for the term of three years, commencing January first. Revised Laws, Chapter 27, Section 14

COMMITTEE ON ACCOUNTS—Three

On the first Monday in January, or as soon thereafter as may be, one member chosen by the Board of Aldermen from that board, and two members of the Common Council by said council. Chap. 415, Sec. 10, Acts of 1896

COMMITTEE ON FINANCE—Five

On the first Monday in January, or as soon thereafter as may be, one member of the Board of Aldermen, to be elected by that board, and three members of the Common Council, to be elected by said council. The Mayor is a member ex-officio. Ordinances, Chap. 1, Sec. 2

CONSTABLES—Four or more

Appointed by the Mayor and Aldermen in January or February for the term of one year. City Charter, Sec. 19, Ord., Chap. 41, Sec. 2

ELECTION OFFICERS

Appointed by the Mayor and Aldermen in August, for the term of one year, commencing September fifteenth. Chap. 386, Acts of 1905

FENCE VIEWERS—Three

Nominated by the Mayor in January or February and chosen by concurrent vote, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 41, Section 1

FIELD DRIVERS—Four or more

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 41, Section 1

FIREMEN

Appointed by the Chief Engineer on recommendation of the Board of Assistant Engineers, under civil service rules. Chapter 178, Acts of 1898

FISH WARDEN

Appointed by the Mayor and Aldermen in January or February for the term of one year. Revised Laws, Chapter 91, Section 54

HEALTH COMMISSIONERS

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council for the term of one year. Ordinances, Chapter 41, Section 1

INSPECTOR OF ANIMALS

Appointed by the Mayor and Aldermen in March, subject to the approval of the Chief of Cattle Bureau, for term of one year commencing April first. Revised Laws, Chap. 90, Sec. 12. Chap. 116 Acts of 1902

INSPECTOR OF BALE OR BUNDLE HAY

Appointed by the Board of Aldermen in January or February for the term of one year. Ordinances, Chap. 21, Sect. 1

INSPECTOR OF BOILERS

Appointed by the Mayor and Aldermen in January or February for the term of one year. Revised Laws, Chap. 105, Sect. 7

INSPECTORS OF THE HEALTH DEPARTMENT

Appointed by the Board of Health under civil service rules

INSPECTORS OF PETROLEUM OILS

Appointed by the Mayor and Aldermen, upon request of five or more citizens. Revised Laws, Chap. 102, Sect. 109

INSPECTOR OF MILK, VINEGAR AND OLEOMARGARINE

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 41, Sect. 2

INSPECTORS OF PLUMBING

Appointed by the Board of Health. Ordinances, Chap. 28, Sect. 8

INSPECTOR OF PROVISIONS

Appointed by the Board of Aldermen

INSPECTORS OF WATER DEPARTMENT

Appointed by Water Board under civil service rules

INSPECTOR OF WIRES

Appointed by the Mayor and Aldermen in January for the term of three years commencing February first. Ordinances, 1898

LIBRARIAN OF THE CITY LIBRARY

Chosen by the Trustees of the City Library. Chapter 231, Section 5, Acts of 1888

MAYOR'S CLERK

Appointed by the Mayor. Chapter 415, Section 4, Acts of 1896

MEASURERS OF GRAIN—Two or more

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2

MEASURERS OF UPPER LEATHER—Two or more

Appointed by the Mayor and Aldermen in April, for the term of one year. Ordinances, Chapter 41, Section 2

MEASURERS OF WOOD AND BARK—Two or more

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 46, Section 2

MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR RAILROAD CARS INTO THE CITY—Two or more

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 46, Section 1

POLICE OFFICERS

Appointed by the Board of Police under civil service rules

POUND KEEPER

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 41, Section 1

PRESIDENT OF THE COMMON COUNCIL

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. City Charter, Section 14

REGISTRARS OF VOTERS—Three and the City Clerk

One member appointed by the Mayor and Aldermen in March or April for the term of three years, commencing May first. The City Clerk is a member ex-officio. Revised Laws, Chapter 11, Section 25

SEALER OF WEIGHTS AND MEASURES

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2

SUPERINTENDENT OF CHARITIES

Appointed by the Board of Charities. Chap. 337, Acts of 1905

SUPERINTENDENT OF CITY SCALES

Appointed by the Mayor and Aldermeu in January or February for the term of one year. Ordinances, Chapter 21, Section 1

SUPERINTENDENT OF COMMONS

Appointed by Board of Park Commissioners

SUPERINTENDENT OF PUBLIC BUILDINGS

Chosen by concurrent vote of the City Council in January or February for the term of one year. Ordinances. Chapter 5, Section 1

SUPERINTENDENT OF SCHOOLS

Chosen by the School Committee in July or August for the term of One year. Ordinances. Chapter 40, Section 1

SUPERINTENDENT OF STATE AID AND ASSISTANT

Appointed by the Mayor and Aldermeu in January for the term of one year, commencing February first. Ordinances approved September 27, 1898

SUPERINTENDENT OF STREETS

Chosen by concurrent vote of the City Council in January or February for the term of one year. Ordinances, Chapter 39, Section 1

SUPERINTENDENT OF WATER WORKS

Chosen by the Water Board in March for the term of one year, commencing April first. Ordinances, Chapter 45, Section 2

SURVEYORS OF HIGHWAYS

Chosen by concurrent vote of the City Council in January or February for the term of one year. City Charter, Section 17, Ordinances, Chapter 39, Section 1

SURVEYORS OF LUMBER—Four or more

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chapter 39, Section 1

SURVEYORS OF PLASTERING, BRICK OR STONE WORK AND PAINTING—Four or more

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2

TRUANT COMMISSIONERS

Appointed by the School Committee. Revised Laws, Chapter 46, Section 12

TRUSTEES OF THE PUBLIC LIBRARY—Five and the Mayor

One member appointed in December by the Mayor and Aldermen for the term of five years, commencing the second Monday in January. The Mayor is a member ex-officio. Ordinances, Chapter 14, Sec. 2

TRUSTEES OF PUBLIC BURIAL GROUNDS—Two and the Mayor

One member appointed by the Mayor and Aldermen in December for the term of two years, commencing the first Monday in January. The Mayor is a member ex-officio. Chapter 337, Sec. 2, Acts of 1891

WATER BOARD—Four

One member chosen in January or February by concurrent vote of the City Council for the term of four years commencing the second Monday in March. Ordinances, Chapter 45, Section 1

WEIGHERS OF COAL—One or more

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 41, Section 2

WEIGHERS OF HAY AND OTHER ARTICLES—Two or more

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chapter 21, Section 1

CATALOGUE

OF THE

Government of the City of Lowell

IN

Chronological Order of Service.

From Its Institution in 1836, to 1905, Inclusive.

MUNICIPAL REGISTER
1836.

III

MAYOR:
ELISHA BARTLETT.

ALDERMEN:

William Austin, resigned Oct. 10.	Benjamin Walker.
Joseph Tapley, elected November.	Oliver M. Whipple.
Seth Ames.	Alexander Wright.
Aaron Mansur.	

SAMUEL A. COBURN, City Clerk.

COMMON COUNCIL:

John Clark, President.	Stephen Mansur.
Henry J. Baxter.	John Mixer.
Jonathan Bowers.	Thomas Nesmith.
George Brownell.	David Nourse.
James Cook.	Thomas Ordway.
David Dana.	James Russell.
Erastus Douglass.	John A. Savel.
Josiah B. French.	Sidney Spaulding.
Cyril French.	Weld Spaulding.
Samuel Garland.	Jonathan Tyler.
Horatio W. Hastings.	Tappan Wentworth.
Horace Howard.	William Wyman.

GEORGE WOODWARD, Clerk, died. ALBERT LOCKE, elected.

1837.

MAYOR:
ELISHA BARTLETT, † '36.

ALDERMEN:

Seth Ames, *'36.	Joseph G. Kittredge.
John Aiken.	Joshua Swan.
Seth Chellis	Alexander Wright, *'36.

SAMUEL A. COBURN, City Clerk.

COMMON COUNCIL:

WARD 1.	WARD 4.
Joshua Abbott.	William Baker.
James K. Fellows.	Elijah M. Read.
Jesse Phelps.	Charles H. Wilder.
Walter Wright.	William W. Wyman.
WARD 2.	WARD 5.
William Fiske.	George Brownell, '36.
Thomas Nesmith, '36.	Osgood Dane.
Josiah Osgood.	James Russell, '36.
Joseph Tyler.	Tappan Wentworth, '36.
WARD 3.	WARD 6.
Joseph M. Dodge.	Andrew Bird.
Elisha Huntington, President.	Benjamin H. Gage.
William North.	Jona. T. P. Hunt.
Joseph Tapley.	Abram Tilton.

ALBERT LOCKE, Clerk.

The figures without other marks indicate membership of the Common Council those years. † Mayor that year. * Alderman that year. ‡ President of the Common Council that year.

1838**MAYOR:****LUTHER LAWRENCE.****ALDERMEN:**

Benjamin F. French.
Charles L. Tilden.
Oliver M. Whipple, *'36.

George H. Carleton.
George Brownell, '36, '37.
Seth Chellis, *'37.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL:**WARD 1.**

Jesse Phelps, '37.
Walter Wright, '37.
Eliphalet Brown.
Perez Fuller.

WARD 2.

William Fiske, '37.
Aaron H. Sherman.
William Upham.
Henry J. Baxter, '36.

WARD 3.

Thomas Hopkinson.
Elisha Huntington, †'37, President.
Horace Howard, '36.
John Mixer, '36.

WARD 4.

David Dana, '36.
Perley Hale.
Benjamin Walker, *'36.
William Baker, '37.

WARD 5.

Garret J. Bradt.
Benjamin Wilde.
Erastus Douglass, '36.
Rufus Paul.

WARD 6.

Eli Cooper.
Thomas L. Randlett.
James L. Foot.
Calvin Goodspeed.

ALBERT LOCKE, Clerk.

1839.**MAYOR:**

LUTHER LAWRENCE. — [Died in April.]

ELISHA HUNTINGTON, † '37, † '38.

ALDERMEN:

Benjamin F. French, *'38.
John O. Green.
Charles L. Tilden, *'38.

George H. Carleton, *'38.
John Clark, † '36.
Oliver M. Whipple, * '36, *'38.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL :**WARD 1.**

Walter Wright, '37, '38.
Harlin Pillsbury.
Eliphalet Brown, '38.
Forrest Eaton.

WARD 2.

Jonathan Tyler, '36.
John Nesmith.
Henry J. Baxter, '36, '38.
Jefferson Bancroft.

WARD 3.

Thomas Hopkinson, '38, President.
Jacob Robbins.
John G. Locke.

WARD 4.

Benjamin Walker, *'36, '38.
Samuel Horn.
Stephen Carleton.
Stephen Mansur, '36.

WARD 5.

Tappan Wentworth, '36, '37.
Lewis McIntire, died Feb., 1840.
Benjamin Wilde, '38.
Garret J. Bradt, '38.

WARD 6.

Thomas L. Randlett, '38.
Joseph S. Holt.
John L. Fitts.
Daniel Knapp.

ALBERT LOCKE, Clerk.

1840.**MAYOR:****ELISHA HUNTINGTON, † '37, † '38, † '39.****ALDERMEN:**

Jonathan Tyler, '36, '39.
 John R. Adams.
 Joseph Bedlow.

Harlin Pillsbury, '39.
 Seth Ames, *'36, *'37.
 Stephen Mansur, '36, '39.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39.
 Sylvanus Adams.
 Henry Patch.
 R. M. Hutchinson.

WARD 2.

Jefferson Bancroft, '39.
 John Nesmith, '39.
 Joseph G. Kittredge, *'37.
 Josiah Osgood, '37.

WARD 3.

Pelham W. Warren, President.
 Abner W. Buttrick.
 Asa Hall.
 Samuel Burbank.

WARD 4.

Ferdinand Rodliff.
 Ethan Burnap.
 Edward F. Watson.
 B. Walker, *'36, '38, '39, died Sept.

WARD 5.

Tappan Wentworth, '36, '37, '39.
 Samuel W. Brown.
 John J. Crane.
 George Dane.

WARD 6.

Daniel Knapp, '39.
 George L. Fitts, '39.
 Joseph Battles.
 Joshua Converse.

ALBERT LOCKE, Clerk, died October. JOHN G. LOCKE, elected October.**1841.****MAYOR:****ELISHA HUNTINGTON, † '37, † '38, † '39, † '40.****ALDERMEN:**

Seth Chellis, *'37, '38.
 Jefferson Bancroft, '39, '40.
 Cyril French, '36.

George H. Carleton, *'38, *'39.
 John R. Adams, *'40.
 John Aiken, *'37.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Henry Patch, '40.
 George Bragdon.
 John W. Holland.
 Arnold Welch.

WARD 2.

William Fiske, '37, '38.
 Erasmus D. Leavitt.
 Jonathan White.
 Nathaniel Wilson.

WARD 3.

Samuel Burbank, '40.
 Nathaniel Critchett.
 Royal Southwick.
 Edward Winslow.

WARD 4.

Ethan Burnap, '40.
 William Livingston.
 John Morrison.
 Edward F. Watson, '40.

WARD 5.

Tappan Wentworth, '36, '37, '39, '40, Pres.
 Samuel W. Brown, '40.
 John J. Crane, '40.
 Phineas Whiting.

WARD 6.

Francis H. Bowers.
 Isaac H. Cooper.
 William Potter.
 John Smith.

JOHN G. LOCKE, Clerk.

1842.**MAYOR:****NATHANIEL WRIGHT.****ALDERMEN:**

Nathaniel Thurston.
 Jefferson Bancroft, '39, '40, '41.
 Cyril French, '36, *'41.

William Livingston, '41
 Ittamar A. Beard.
 John W. Graves.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL:**WARD 1.**

Jeremiah P. Jewett.
 John Hadley.
 James Townsend.
 Edward J. Payne.

WARD 2

John Nesmith, '39, '40.
 Erasmus D. Leavit, '41.
 Joseph W. Mansur, President.
 James Hopkins.

WARD 3.

Nathaniel Critchett, '41.
 Ira Spalding.
 John Mead.
 Asa W. Willoughby.

WARD 4.

John Morrison, '41.
 William Carlton.
 Oliver March.
 Josiah B. French, '36.

WARD 5.

James Patterson.
 Isaac Appleton.
 Josiah Seavey.
 Roswell Douglass.

WARD 6.

James Russell, '36, '37.
 Jonathan Kendall.
 Varnum A. Shed.
 Isaac N. Fitts.

JOHN G. LOCKE, Clerk.

1843.**MAYOR:****NATHANIEL WRIGHT, † '42.****ALDERMEN:**

Harlin Pillsbury, '39, *'40, res'd June.
 Henry C. Johnson.
 Cyril French, '36 *'41, *'42.

S. Spalding, '36, res'd in June.
 Joseph Griffin.
 Charles L. Tilden, *'38, '39.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL:**WARD 1.**

Daniel Bixby.
 Edward J. Payne, '42.
 Hugh Commiskey.
 Walter Wright, '37, '38, '39.

WARD 2.

Henry J. Baxter, '36, '38, '39.
 John P. Simonds.
 Pliny Lawton.
 Ben Osgood.

WARD 3.

John Mead, '42.
 Willard Brown.
 Ira Spalding, '42.
 Benjamin J. Gerrish.

WARD 4.

Otis Allen.
 Alfred Gilman.
 Oliver March, '42, President.
 William Carlton, '42.

WARD 5.

James Patterson, '42.
 David Bradt.
 John L. Tripp.
 Benjamin F. Holden.

WARD 6.

John B. McAlvin.
 Cyrus Battles.
 Sewall G. Mack.
 Charles F. Mitchell.

JOHN G. LOCKE, Clerk.

1844.**MAYOR:****ELISHA HUNTINGTON**, †'37, †'38, †'39, †'40, †'41.**ALDERMEN:**

Henry Smith.
 Selwin Bancroft,
 O. M. Whipple, *'36, *'38, *'39.

Edward F. Watson, '40, '41.
 Joseph Griffin, *'43.
 John Wright.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39, '40.
 Gilman N. Nichols.
 Hugh Cumiskey, '43.
 David Healey.

WARD 2.

John P. Simonds, '43.
 Ben Osgood, '43.
 Amos Merriam.
 John Clark, †'36, *'39, President.

WARD 3.

Charles B. Coburn.
 George Choate.
 Isaac Scripture.
 William C. Gray.

WARD 4.

Asa Wetherbee.
 Abner W. Buttrick, '40.
 Horatio G. F. Corliss.
 Charles H. Wilder, '37.

WARD 5.

John L. Tripp, '43.
 David Bradt, '43.
 John Wright.
 Nathaniel Wright, Jr.

WARD 6.

Sewall G. Mack, '43.
 James Russell, '36, '37, '42.
 Jonathan Kendall, '42.
 Gilman Gale.

JOHN G. LOCKE, Clerk.**1845.****MAYOR:****ELISHA HUNTINGTON**, †'37, †'38, †'39, †'40, †'41, †'44.**ALDERMEN:**

Henry Smith, *'44.
 Selwin Bancroft, *'44.
 O. M. Whipple, *'36, *'38, *'39, *'44.

Edward F. Watson, '40, '41, '44.
 John C. Dalton.
 Daniel Knapp, '39.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39.
 Danforth P. Brigham.
 Jonathan Adams.
 Willard C. Welch.

WARD 2.

John P. Simonds, '43, '44.
 Daniel Balch.
 William Brown.
 Daniel S. Richardson, President.

WARD 3.

Isaac Scripture, '44.
 William C. Gray, '44.
 George Choate, '44.
 Hapgood Wright.

WARD 4.

Abner, W. Buttrick, '40 '44.
 Asa Wetherbee, '44.
 Charles H. Wilder, '37, '44.
 Josiah Sawtell.

WARD 5.

Nathaniel Wright, Jr., '44.
 Amos Hyde.
 Edward Sherman.
 James Fenno.

WARD 6.

Gilman Gale, '44.
 John B. McAlvin, '43.
 Samuel Fay, Jr.
 Lorenzo P. Wright.

JOHN G. LOCKE, Clerk.

1846.**MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42.****ALDERMEN:**

Henry Smith, *'44, *'45.
 Selwin Bancroft, *'44, *'45.
 William C. Gray, '44, '45.
 Joseph Butterfield.

John C. Dalton, '45.
 D. Knapp, '39, *'45, resigned in July
 Isaac Corper, '41, elected in August.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39, '45.
 Danforth P. Brigham, '45.
 Willard C. Welch, '45.
 Thomas S. Hutchinson.

WARD 2.

Daniel Balch, '45.
 William Brown, '45.
 Daniel S. Richardson, †'45, President.
 Zadock Rogers.

WARD 3.

Hapgood Wright, '45.
 Isaac Farrington.
 Joel Powers.
 Franklin Mead.

WARD 4.

Josiah Sawtell, '45.
 Solon Stevens.
 David J. Moody.
 William Fletcher.

WARD 5.

Amos Hyde, '45.
 Horatio G. F. Corliss, '44.
 Jonathan Bowers, '36.
 Charles M. Short.

WARD 6.

Lorenzo P. Wright, '45.
 John L. Fitts, '39, '40.
 Lewis Packard.
 Columbus J. Hubbard.

JOHN G. LOCKE, Clerk**1847.****MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46.****ALDERMEN:**

George Bragdon.
 Joseph Butterfield, *'46.
 Linus Child.
 James Fenno, '45.

Elisha Huntington, †'37, †'38, †'39, †'40,
 †'41, †'44, †'45.
 Sewall G. Mack, '43, '44.
 Stephen Mansur, '36, '39, *'40.
 Josiah Sawtell, '45, '46.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conihe.
 James C. Crombie.
 David S. Bachelder,
 Jesse Huse.

WARD 2.

Samuel W. Brown, '40, '41.
 Hannibal Powers.
 William Newman.
 Otis L. Allen.

WARD 3.

Joel Powers, '46.
 Franklin Mead, '46.
 Isaac Farrington, '46.
 Samuel G. Davis.

WARD 4.

Joel Adams, President.
 Horatio Fletcher.
 Solon Stevens, '46.
 Stephen A. Coburn.

WARD 5.

Ignatius Tyler.
 Edward C. Johnson.
 Elihu Gates.
 Charles M. Short, '46.

WARD 6.

Thomas Wentworth.
 Isaac N. Parker.
 John R. Southwick.
 Isaiah Morse.

JOHN G. LOCKE, Clerk.

1848.**MAYOR:****JEFFERSON BANCROFT**, '39, '40, *'41, *'42, †'46, †'47.**ALDERMEN:**

David Dana, '36, '38.

Erastus Douglass, '36, '38.

Jacob Graves, resigned in June.

William Newman, '47.

Gilman N. Nichols, '39, '45, '46.

Daniel S. Richardson, †'45, †'46.

Josiah Sawtell, '45, '46, *'47.

O. M. Whipple, *'36, *'38, *'39, *'45.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conibe, '47.

James C. Crombie, '47.

Jesse Huse, '47.

Gerry Wilson.

WARD 2.

Otis L. Allen, '47.

William H. Flagg.

John Nesmith, '39, '40, '42.

Hannibal Powers, '47.

WARD 3.

Alfred Gilman, '43.

Thomas Hopkinson, '38, '39, President.

Ransom Reed.

Nathaniel Critchett, '41, '42.

WARD 4.

John Avery.

Otis Allen, '43.

Abiel Rolfe.

Horace Howard, '36, '38.

WARD 5.

Ignatius Tyler, '47.

Elihu Gates, '47.

Edward C. Johnson, '47.

Charles M. Short, '46, '47.

WARD 6.

Thomas Wentworth, '47.

Isaac N. Parker, '47.

Jeremiah M. Currier.

Horace Parmenter.

JOHN G. LOCKE, Clerk.**1849.****MAYOR:****JOSIAH B. FRENCH**, '36, '42.**ALDERMEN:**

James B. Francis.

Cyril French, '36, *'41, *'42, *'43.

James H. B. Ayer.

Daniel D. Crombie.

Daniel Carter.

George Brownell, '36, '37, *'38.

Artemas L. Brooks.

Joseph Bedlow, *'40.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jesse Huse, '47, '48, resigned in February.

William A. Richardson, elected in March.

Gerry Wilson, '48.

John W. Smith.

Alfred S. Saunders.

WARD 2.

William H. Flagg, '48.

Ivers Taylor.

Isaac S. Morse, resigned.

Ambrose Lawrence.

WARD 3.

Alfred Gilman, '43, '48.

Elisha Davis.

James Dinsmoor.

Andrew C. Wheelock.

WARD 4.

Nathaniel B. FAVOR.

Caleb Crosby.

Ezekiel Wright.

Waldo A. Fisher.

WARD 5.

Maynard Bragg.

Joshua Decatur.

Abram T. Melvin.

W. W. Morse.

WARD 6.

William Lamson, Jr.

Jeremiah M. Currier, '48.

George S. Wright.

John Aiken, *'37, *'41, President.

GEORGE A. BUTTERFELD, Clerk.

1850.**MAYOR:****JOSIAH B. FRENCH, '36, '42, †'49.****ALDERMEN:**

James H. B. Ayer, *'49.
 Joseph Bedlow, *'40, *'49.
 Daniel D. Crombie, *'49.
 James B. Francis, *'49.

Philip Hardy.
 John Mixer, '36, '38.
 Josiah G. Peabody.
 James Townsend, '42.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

John W. Smith, '49.
 Daniel R. Kimball.
 James Watson.
 Jonathan Smothers.

WARD 2.

Ivers Taylor, '49, President.
 George Gardner.
 Samuel Lawrence, 2d.
 Samuel J. Varney.

WARD 3.

Jonathan Page.
 John Tripp.
 Fordyce Coburn.
 Joshua Merrill.

WARD 4.

Abner W. Buttrick, '40, '44, '45.
 Caleb Crosby, '49.
 Benjamin Goddard.
 Nathaniel B. Favor, '49.

WARD 5.

George P. Elliot.
 William Fiske, '37, '38, '41.
 George W. Worthen.
 Maynard Bragg, '49.

WARD 6.

Albert Mallard.
 Stephen P. Sargent.
 George S. Wright, '49.
 Wm. Lampson, Jr., '49, resigned in May

GEO. A. BUTTERFIELD, Clerk, res'd May. WM. LAMSON, JR., elected May.**1851.****MAYOR:****JAMES H. B. AYER, *'49, *'50.****ALDERMEN:**

William Fiske, '37, '38, '41, '50.
 Ambrose Lawrence, '49.
 James Townsend, '42, *'50.
 Philip Hardy, *'50.

William North, '37.
 Abiel Rolfe, '48.
 Lucius A. Cutler.
 Joshua Converse, 40.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

James Watson, '50.
 Jonathan Smothers, '50.
 Charles B. Coburn, '44.
 Stephen Moar.

WARD 2.

Linus Child, *'47.
 George Gardner, '50, President.
 Samuel J. Varney, '50.
 Zachariah B. Caverly.

WARD 3.

Fordyce Coburn, '50.
 William Twichell.
 Darius C. Brown.
 Benjamin C. Sargeant.

WARD 4.

Benjamin Goddard, '50.
 Richard Dennis.
 Holland Streeter.
 Solomon D. Emerson.

WARD 5.

George P. Elliot, '50.
 Edward Fifield.
 John N. Ford.
 Theodore H. Sweetser.

WARD 6.

George W. Worthen, '50.
 George W. Jones, died in September.
 Stephen P. Sargent, '50.
 Albert Mallard, '50.

WILLIAM LAMSON, JR., Clerk,

1852.**MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47.

ALDERMEN:

Joseph Bedlow, *'40, *'49, *'50.

Joseph M. Bullens.

Samuel Burbank, '40, '41.

Joseph B. V. Coburn.

Wm. Fiske, '37, '38, '41, '50, *'51.

William North, '37, *'51.

Alpha Stevens.

Samuel J. Varney, '50, '51.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL:**WARD 1.**Rufus Rogers.
John C. Smith.
Jeremiah Clark.
Paul Hill.**WARD 2.**Paul Perkins.
Milton Bonney.
William Hovey.
Zachariah B. Caverly, '51.**WARD 3.**Darius C. Brown, '51.
William Twichell, '51.
Benjamin C. Sargeant, '51, President.
Michael B. Caswell.**WARD 4.**Holland Streeter, '51.
Elbridge Livingston.
Abram French.
Willard Minot.**WARD 5.**Edward Fifield, '51.
Phineas Whiting, '41.
George W. Patterson.
Jonathan Kendall, '42, '44.**WARD 6.**Leonard W. Jaquith.
Seth Pooler.
Caleb G. Weaver.
William C. Parker.

WILLIAM LAMSON, JR., Clerk.

1853.**MAYOR:**

SEWALL G. MACK, '43, '44, *'47.

ALDERMEN:Elisha Huntington, †'37, †'38, †'39, †'40,
†'41, †'44, †'45, *'47, †'52.

Samuel K. Hutchinson.

Stephen Mansur, '36, '39, *'40, *'47.

Joseph B. V. Coburn, *'52.

Ira Spalding, '42, '43.

Joseph M. Bullens, *'52.

Alpha Stevens, *'52.

Joseph White.

THOMAS ORDWAY, City Clerk.

COMMON COUNCIL:**WARD 1.**Rufus Rogers, '52.
John C. Smith, '52.
Marcus A. Thomas.
James Cook, '36.**WARD 2.**Paul Perkins, '52.
Milton Bonney, '52.
George G. Bumpus.
George W. Stanley.**WARD 3.**Michael B. Caswell, '52.
Calvin Philbrick.
Leonard Brown.
Henry H. Wilder.**WARD 4.**Abram French, '52.
Henry C. Howe.
Joseph S. Grush.
Samuel K. Pickering.**WARD 5.**George W. Patterson, '52.
William A. Richardson, '49, President.
Patrick Conlan.
Jonathan Bowers.**WARD 6.**Caleb G. Weaver, '52.
William C. Parker, '52.
George F. Woods.
C. F. Blanchard.

WILLIAM LAMSON, JR., Clerk.

1854.**MAYOR:****SEWALL G. MACK, '43, '44, *'47, †'53.****ALDERMEN:**

Elisha Huntington, †'37, †'38, †'39, †'40, Joseph White, *'53.
 †'41, †'44, †'45, *'47, †'52, *'53. Horatio Fletcher, 47.
 J. B. V. Coburn, *'52, *'53, res'd in Jan. C. F. Blanchard, '53.
 Samuel K. Hutchinson, *'53. Charles Sperry.
 Ira Spalding, '42, '43, *'53.

WILLIAM LAMSON, JR. City Clerk.**COMMON COUNCIL:****WARD 1.**

John C. Smith, '52, '53.
 Paul Hill, '52.
 Marcus A. Thomas, '53.
 Thomas Lennou.

WARD 2.

George W. Stanley, '53.
 William H. Gage.
 Amos A. Taylor.
 William H. Bradley.

WARD 3.

Calvin Philbrick, '53.
 Leonard Brown, '53, declined.
 Darius C. Brown, '51, '52, elected.
 Henry H. Wilder, '53.
 Peter O. C. Frawley.

WARD 4.

Henry C. Howe, '53.
 Joseph S. Grush, '53.
 Samuel K. Pickering, '53.
 Hubbard Wilson.

WARD 5.

Wm. A. Richardson, '49, †'53, President.
 Jonathan Bowers, '53.
 Patrick Conlan, '53.
 John C. Woodward.

WARD 6.

George F. Woods, '53.
 Charles S. Eastman.
 Levi H. Straw.
 William P. Webster.

LEONARD BROWN, Clerk.**1855.****MAYOR:****AMBROSE LAWRENCE, '49, '51.****ALDERMEN:**

Wm. Fiske, '37, '38, '41, '50, *'51, *'52. Andrew T. Nute.
 Artemas L. Brooks, *'49. Abner Frost.
 Daniel Woodward. William S. Johnson.
 Lorenzo G. Howe. Shadrach R. Brackett.

WILLIAM LAMSON, JR, City Clerk.**COMMON COUNCIL:****WARD 1.**

Maynard Bragg, '49, '50.
 Aaron B. Young.
 Augustus B. Roby.
 George L. Harris.

WARD 2.

William G. Morse.
 George K. Paul.
 Mark H. Cook.
 Joseph A. Patten.

WARD 3.

Alfred Gilman, '43, '48, '49, President.
 Daniel Hurd.
 Theodore Warren.
 Stephen K. Fielding.

WARD 4.

Joshua W. Daniels.
 John Bennett.
 Alanson Folsom.
 Francis H. Nourse.

WARD 5.

John C. Woodward, '54.
 Stephen Bartlett.
 Jonathan Johnson.
 Oliver P. Rand.

WARD 6.

Levi H. Straw, '54.
 William T. Whitten.
 Lucien P. Stacy.
 James M. Moore.

LEONARD BROWN, Clerk.

1856.**MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47,
†'52, *'53, *'54.

ALDERMEN:

Edward Tuck.
Samuel Burbank, '40, '41, *'52.
Charles B. Coburn, '44.
William P. Webster, '54.
Hapgood, Wright, '45, '46.

Charles H. Wilder, '37, '44, '45.
O. J. Conant, resigned in March.
James H. Rand.
Jonathan Johnson, elected in June.

WILLIAM LAMSON, JR., City Clerk.

COMMON COUNCIL:**WARD 1.**

Enos O. Kingsley.
Abiel Pevey.
David M. Collins.
Marshall E. Thompson.

WARD 2.

Isaac Hinckley.
Seth Gage.
Peter Flanders, Jr.
Leonard F. Jewell.

WARD 3.

David Rogers.
Benj. C. Sargeant, '51, †'52, President.
Henry H. Carroll.
Peter Powers.

WARD 4.

Francis H. Nourse, '55.
Alden B. Buttrick.
Holland Streeter, '51, '52.
James Sands.

WARD 5.

Frederick Holton.
Isaac Place.
Albert Wheeler.
Abiel Rolfe, '48, *'51.

WARD 6.

Eliphalet Hills.
Jonathan P. Folsom.
James K. Fellows, '37.
John K. Chase.

JAMES J. MAGUIRE, Clerk.

1857.**MAYOR:**

STEPHEN MANSUR, '36, '39, *'40, *'47, *'53.

ALDERMEN:

Andrew T. Nute, *'55.
John C. Woodward, '54, '55.
Jonathan Smothers, '50, '51.
Samuel W. Stickney.

John B. Tuttle.
Francis H. Nourse, '55, '56.
Jonathan Johnson, '55, *'56.
John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., City Clerk.

COMMON COUNCIL:**WARD 1.**

Abiel Pevey.
Stephen T. Stanley.
Charles A. Welch.
George F. Scribner.

WARD 2.

William G. Morse, '55.
William D. Vinall.
Temple Tebbetts.
James M. Howe.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56.
David Rogers, '56.
Henry H. Carroll, '56.
Nathan Allen.

WARD 4.

Caleb Crosby, '49, '50.
John F. Howe.
John C. Jepson.
Alanson Nichols.

WARD 5.

Frederick Holton, '56, President.
William H. Wiggin.
William Goodale.
Charles Hubbard.

WARD 6.

Erastus Boyden.
Jonathan Kimball.
Robert J. Garrett.
William Nichols.

HENRY A. LORD, Clerk.

1858.**MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47, †'52, *'53, *'54, †'56.

ALDERMEN:

Sewall G. Mack, '43, '44, *'47, †'53, †'54. Joseph M. Dodge, '37.
 Samuel W. Stickney, *'57. Harvey Silver.
 Abiel Pevey, '56, '57. Albert Wheeler, '56.
 Jeremiah P. Jewett, 42. Edwin A. Alger.

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Charles Wilkins.
 John M. Maynard.
 John E. Webb.
 William Barnard.

WARD 2.

Edward Tuck, *'56.
 William P. Webster, '54, *'56.
 Andrew Blood.
 William F. Salmon.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
 '57, President.
 Hanover Dickey.
 Joseph A. Brabrook.
 Benjamin S. Butterworth.

WARD 4.

Enoch P. Young.
 Zephaniah Goward.
 Jesse Blake.
 John F. Howe, '57.

WARD 5.

Willard Dudley.
 Samuel T. Manahan.
 Isaac Page.
 John Avery, 2d.

WARD 6.

William Nichols, '57.
 Alpha B. Farr, resigned in January.
 Leonard Brown, '53, '54, elected in Feb.
 Erastus Boyden, '57.
 James H. Rand, *'56, resigned in May.
 Eben'r Burgess, elected in June.

GEORGE GARDNER, Clerk.

1859.**MAYOR:**

JAMES COOK, '36, '53.

ALDERMEN:

Lorenzo G. Howe, *'55. John F. Howe, '57, '58.
 Samuel J. Varney, '50, 51, *'52. Joshua Converse, '40, *'51, res'd in April.
 Paul Hill, '52, '54. J. P. Folsom, '56, resigned in April.
 Ambrose Lawrence, '49, '51, †'55, re- Edward Tuck, *'56, '58, elected in May.
 signed in April. Samuel T. Manahan, '58, elected in May.
 Darius C. Brown, '51, '52. Jonathan Ladd, elected in May.

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:**WARD 1.**

John E. Webb, '58.
 Charles Wilkins, '58.
 William Barnard, '58.
 William D. Blanchard.

WARD 2.

W. P. Webster, '54, *'56, '58, President.
 William F. Salmon, '58.
 James M. Howe, '57.
 David Nichols.

WARD 3.

George Hobson.
 Asahel D. Puffer.
 John Willoughby.
 Benjamin S. Butterworth, '58.

WARD 4.

Caleb Crosby, '49, '50, '57.
 Jesse Blake, '58.
 George W. Partridge.
 George W. Young.

WARD 5.

Horatio G. F. Corliss, '44, '46.
 Luther B. Morse.
 Josiah G. Peabody, *'50.
 William Goodale, '57.

WARD 6.

Charles A. Stott.
 Levi Sprague.
 Ebenezer Burgess, '58.
 Leonard Brown, '53, '54, '58.

GEORGE GARDNER, Clerk.

1860.**MAYOR:****BENJAMIN C. SARGEANT, '51, †'52, †'56, '57, †'58.****ALDERMEN:**

Edward F. Watson, '40, '41, *'44, *'45.	Henry H. Wilder, '53, '54.
Lorenzo G. Howe, *'55, *'59.	Abner Frost, *'55.
James Watson, '50, '51.	Samuel T. Manahan, '58, *'59.
William G. Morse, '55, '57.	William S. Gardner.

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Benjamin S. Ireson.
 Enoch Quimby.
 John P. Slocum.
 Amos H. Foster.

WARD 2.

Henry P. Clough.
 Alfred S. Saunders, '49.
 Wm. F. Salmon, '58, '59, President.
 Joseph L. Sargent.

WARD 3.

George Hobson, '59.
 Josiah B. Fielding.
 Henry P. Perkins.
 Hocum Hosford.

WARD 4.

George W. Partridge, '59.
 George W. Young, '59.
 Morrill M. Bohonan.
 Caleb Crosby, '49, '50, '57, '59.

WARD 5.

Josiah G. Peabody, *'50, '59.
 Sullivan L. Ward.
 George F. Morey.
 William H. Lamson.

WARD 6.

William Nichols, '57, '58.
 Samuel T. Lancaster.
 Charles A. Stott, '59.
 Foster Nowell.

GEORGE GARDNER, Clerk.**1861.****MAYOR:****BENJAMIN C. SARGEANT, '51, †'52, †'56, '57, †'58, †'60.****ALDERMEN:**

Samuel T. Manahan, '58, *'59, *'60.	Aldis L. Waite.
Jonathan P. Folsom, '56, *'59.	David Whitney, declined acceptance.
James Watson, '50, '51, *'60.	Sager Ashworth, elected in May.
William G. Morse, '55, '57, *'60.	William S. Gardner, *'60.
Hocum Hosford, '60.	

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Frank E. Jewett.
 M. Gilbert Perkins.
 Jacob Baron.
 William D. Blanchard, '59.

WARD 2.

Alfred S. Saunders, '49, '60.
 Joseph L. Sargent, '60.
 Henry P. Clough, '60.
 Henry S. Orange.

WARD 3.

William L. North, President.
 George W. Norris.
 Henry P. Perkins, '60.
 James G. Morrison.

WARD 4.

Joseph Cater.
 Joseph B. Keyes.
 Morrill M. Bohonan, '60.
 Abel M. Ayer.

WARD 5.

Sullivan L. Ward, '60.
 Samuel Beck.
 William H. Parker.
 George F. Morey, '60.

WARD 6.

Samuel T. Lancaster, '60.
 Foster, Nowell, '60.
 Elon A. Sanborn.
 George E. Dana.

GEORGE GARDNER, Clerk.

MUNICIPAL REGISTER

1862.

MAYOR:

HOCUM HOSFORD, '60, *'61.

ALDERMEN:

Mertoun C. Bryant.	Isaac F. Scripture.
Edwin A. Alger, *'58.	Aldis L. Waite, *'61.
James B. Francis, *'49, *'50.	Albert Wheeler, '56, *'58.
William A. Burke.	Jona. P. Folsom, '56, *'59, *'61.

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:

WARD 1

Amos D. Wright.
Frank E. Jewett, '61.
Horatio G. Burgess.
Charles F. Hard.

WARD 2.

Benedict O. Carpenter.
William T. McNeill.
Lorenzo G. Howe, *'55, *'58, *'60.
Henry S. Orange, '61.

WARD 3.

George W. Norris, '61.
Edmund D. Fletcher.
Everett W. French.
John Quinn.

WARD 4.

Joseph B. Keyes, 61.
George Runels.
John Pettingell.
Hubbard Willson, '54.

WARD 5.

Rollin C. Downs.
Albert Mallard, '50, '51.
Edward Fifield, '51, '52.
Cleveland J. Cheney.

WARD 6.

George F. Richardson, President
Albion J. Dudley.
Elon A. Sanborn, '61.
Frederick Frye.

GEORGE GARDNER, Clerk.

1863.

MAYOR:

HOCUM HOSFORD, '60, *'61, †'62.

ALDERMEN:

James B. Francis, *'49, *'50, *'62.	Isaac F. Scripture, *'62.
Edwin A. Alger, *'58, *'62.	Otis Allen, '43, '48.
Abiel Pevey, '56, '57, *'58.	Albert Wheeler, '56, *'58, *'62.
William A. Burke, *'62.	William Nichols, '57, '58, '60.

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:

WARD 1.

Charles F. Hard, '62.
Amos D. Wright, '62.
John Cosgrove.
William A. Wright.

WARD 2.

George F. Sawtell.
Henry S. Orange, '61, '62.
Hugh McEvoy.
Nathaniel Stearns.

WARD 3.

Everett W. French, '62.
Fordyce Coburn, '50, '51.
Edmund D. Fletcher, '62.
John Quinn, 62.

WARD 4.

Atwell F. Wright.
Josiah Gates.
William Stafford.
John McCann.

WARD 5.

James C. Ayer.
Charles W. Saunders.
Cyrus H. Latham.
John E. Downs.

WARD 6.

George F. Richardson, †'62, President.
Albion J. Dudley, '62.
Benedict O. Carpenter, '62.
Frederick Frye, '62.

GEORGE GARDNER, Clerk.

1864.**MAYOR:****HOCUM HOSFORD, '60, * '61, † '62, † '63.****ALDERMEN:**

William S. Southworth. George W. Norris, '61, '62.
 James B. Francis, *'49, *'50, *'62, *'63. George Runels, '62.
 Dana B. Gove. Cyrus H. Latham, '63.
 William T. McNeill, '62. George F. Richardson, † '62, † '63.

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson.
 Lewis L. Perrin.
 Frederick S. Tukey.
 John Cosgrove, '63.

WARD 2.

George Ripley, President.
 Andrew F. Jewett.
 Artemas S. Young.
 Hoyt W. Hilton.

WARD 3.

Samuel N. Wood.
 Charles W. Dodge.
 Joseph S. Pollard.
 James G. Morrison, '61.

WARD 4.

Atwell F. Wright, '63.
 Daniel Churchill.
 William W. Sherman.
 Francis Jewett.

WARD 5.

John E. Downs, '63.
 Thomas G. Gerrish, resigned June 14.
 Charles Hubbard, '57.
 Cleveland J. Cheney, '62.

WARD 6.

Levi Sprague, '59.
 Tobias L. P. Lamson.
 Addison Putnam.
 Albion J. Dudley, '62, '63.

GEORGE GARDNER, Clerk.**1865.****MAYOR:****JOSIAH G. PEABODY, * '50, '59, '60.****ALDERMEN:**

Ew'd F. Watson, '40, '41, *'44, *'45, *'60. Henry H. Wilder, '53, '54, *'60.
 George W. Norris, '61, '62, *'64. Josiah Gates, '63.
 Dana B. Gove, *'64. Cyrus H. Lathan, '63, *'64.
 William T. McNeill, '62, *'64. William Brown, '45, '46.

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson, '64.
 Lewis L. Perrin, '64.
 George N. Osgood.
 John R. Southwick, '47.

WARD 2.

George Ripley, † '64, President.
 Andrew F. Jewett, '64.
 Julian V. Keyes.
 Chester W. Rugg.

WARD 3.

Joseph S. Pollard, '64.
 Charles W. Dodge, '64.
 Edward C. Rice.
 Frederick T. North.

WARD 4.

Francis Jewett, '64.
 Benjamin Walker.
 Benjamin L. Googins.
 John Pearson.

WARD 5.

Charles Hubbard, '57, '64.
 James Kent.
 Simeon D. Osterhoudt.
 James Foster.

WARD 6.

Tobias L. P. Lamson, '64.
 Luke C. Dodge.
 Gustavus A. Gerry.
 James M. Moore, '55.

GEORGE GARDNER, Clerk.

1866.**MAYOR:****JOSIAH G. PEABODY**, *'50, '59, '60, † '65.**ALDERMEN:**

Samuel A. Brown.
 Albert B. Plimpton.
 John R. Southwick, '47, '65.
 Joseph L. Sargent, '60, '61.

Charles W. Dodge, '64, '65.
 Josiah Gates, '63, *'65.
 Henry M. Hooke.
 Albion J. Dudley, '62, '63, '64.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

William A. Hodge.
 William A. Wright, '63.
 Jacob Baron, '61.
 Rollin C. Downs, '62.

WARD 2.

Andrew F. Jewett, '64, '65.
 George H. Whitmore.
 Julian V. Keyes, '65.
 Chester W. Rugg, '65.

WARD 3.

Edward C. Rice, '65.
 Frederick T. North, '65.
 James N. Pinkham.
 Oliver W. Smith.

WARD 4.

Benjamin L. Googins, '65.
 Alfred Scott.
 Thomas F. Burgess.
 Benjamin Walker, '65.

WARD 5.

Robert H. Butcher.
 John T. Lee.
 George L. Huntoon.
 Jonathan Johnson, '55, *'56, *'57.

WARD 6.

Gustavus A. Gerry, '65, President.
 Luke C. Dodge, '65.
 Charles A. Kimball.
 Alfred H. Chase.

GEORGE GARDNER, Clerk.**1867.****MAYOR:****GEORGE F. RICHARDSON**, † '62, † '63, *'64.**ALDERMEN:**

Charles B. Coburn, '44, '51, *'56.
 Hocum Hosford, '60, *'61, † '62, † '63, † '64.
 John R. Southwick, '47, '65, *'66.
 Joseph L. Sargent, '60, '61, *'66.
 Edward C. Rice, '65, '66.

Abner W. Buttrick, '40, '44, '45, '50;
 died June 29, '67.
 Wm. E. Livingston, elected Sept. 9, '67.
 William H. Parker, '61.
 Albion J. Dudley, '62, '63, '64, *'66.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Shepard.
 Calvin Sawtell.
 Foster Wilson.
 M. Gilbert Perkins, '61.

WARD 2.

Gustavus A. Gerry, '65, † '66, President.
 Ruel J. Walker.
 William Dobbins.
 Silas Tyler, Jr.

WARD 3.

Jona. P. Folsom, '56, *'59, *'61, *'62.
 Frederick T. North, '65, '66.
 Samuel D. Prescott.
 Nathan M. Wright.

WARD 4.

John B. Hunt.
 John Q. A. Hubbard.
 Alfred Scott, '66.
 Thomas F. Burgess, '66.

WARD 5.

George L. Huntoon, '66.
 George S. Cheney.
 James Foster, '65.
 John T. Lee, '66.

WARD 6.

Alfred H. Chase, '66.
 James Lawton.
 John N. Pierce, Jr.
 Foster Nowell, '60, '61, res'd May 14, '67.
 William Kittredge, elected Sept. 9, '67.

GEORGE GARDNER, Clerk.

1868.**MAYOR:****GEORGE F. RICHARDSON, † '62, † '63, *'64, † '67.****ALDERMEN:**

Charles B. Coburn, '44, '51, *'56, *'67.	Edward C. Rice, '65, '66, *'67.
Francis Jewett, '64, '65.	William E. Livingston, *'67.
John M. Pevey, resigned in July.	Frederic Frye, '62, '63.
Charles L. Hildreth, elected in September.	Albion J. Dudley, '62, '63, '64, *'66, *'67.
Silas Tyler, Jr., '67.	

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Calvin Sawtell, '67.
 John Shepard, '67.
 John F. Merrill.
 Frederic T. Greenhalge.

WARD 2.

Francis D. Munn.
 Joseph A. Patten, '55.
 Ruel J. Walker, '67.
 Henry S. Orange, '61, '62, '63.

WARD 3.

George W. Badger.
 Samuel D. Prescott, '67.
 William Walker.
 Albert A. Haggett.

WARD 4.

William H. Anderson.
 John Q. A. Hubbard, '67.
 Charles T. Crane.
 John B. Hunt, '67.

WARD 5.

Edwin Lamson.
 George S. Cheney, '67.
 William Kelley.
 Ethan N. Spencer.

WARD 6.

John N. Pierce, Jr., '67.
 James Lawton, '67.
 Francis Brown.
 Alfred H. Chase, '66, '67, President.

GEORGE GARDNER, Clerk.**1869.****MAYOR:****JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67.****ALDERMEN:**

Francis Jewett, '64, '65, *'68.	Hapgood Wright, '45, '46, *'56.
Henry H. Wilder, '53, '54, *'60, '65.	John Q. A. Hubbard, '67, '68.
Charles L. Hildreth, *'68.	George S. Cheney, '67, '68.
Cyrus H. Latham, '63, *'64, *'65.	Charles A. Stott, '59, '60.

JOHN H. McALVIN, City Clerk. Resigned March 15, 1869.**SAMUEL A. MCPHETRES, City Clerk. Elected March 15, 1869.****COMMON COUNCIL:****WARD 1.**

Frederic T. Greenhalge, '68.
 John H. Durgin, Jr.
 Patrick Keyes.
 Benjamin Patch.

WARD 2.

Joseph A. Patten, '55, '68.
 Phineas Jones.
 Francis D. Munn, '68.
 Amos Sanborn.

WARD 3.

George W. Badger, '68.
 Albert A. Haggett, '68.
 William Walker, '68.
 George E. Pinkham.

WARD 4.

William H. Anderson, '68, President.
 Simeon G. Lyford.
 Henry P. Carter.
 Epaphras A. Hill.

WARD 5.

William Kelley, '68.
 Willard A. Brown.
 William O. Fiske.
 Edwin Lamson, '68.

WARD 6.

Francis Brown, '68.
 Alpha B. Farr, '58.
 Lucian P. Stacy, '55.
 William Kittredge, '67.

GEORGE GARDNER, Clerk.

1870.**MAYOR:****JONATHAN P. FOLSOM**, '56, *'59, *'61, *'62, '67, †'69.**ALDERMEN:**

Edward F. Sherman.

Frank F. Battles.

Charles L. Hildreth, *'68, *'69.

Amos B. French.

Hapgood Wright, '45, '46, *'56, *'69.

John Q. A. Hubbard, '67, '68, *'69.

Addison Putnam, 64.

Charles A. Stott, '59, '60, *'69.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69.

Benjamin Patch, '69.

Patrick Keyes, '69.

Samuel G. Ladd.

WARD 2.

Phineas Jones, '69.

John L. Moulton.

Patrick Cummiskey.

David G. Skillings.

WARD 3.

Albert A. Haggett, '68, '69, President.

Henry P. Perkins, '60, '61.

Hocum Hosford, '60, *'61, †'62, †'63,

†'64, *'67, declined.

Matthew Donovan.

John L. Meadowcroft, elected Jan. 24.

WARD 4.

Epaphras A. Hill, '69.

Henry P. Carter, '69.

Simeon G. Lyford, '69.

Michael Corbett.

WARD 5.

William O. Fiske, '69.

Willard A. Brown, '69.

James D. Hartwell.

Jeremiah Crowley.

WARD 6.

Alpha B. Farr, '58, '69.

William Kittredge, '67, '69.

Lucian P. Stacy, '55, '69.

John Stott.

GEORGE GARDNER, Clerk.**1871.****MAYOR:****EDWARD F. SHERMAN**, *'70.**ALDERMEN:**

Frank F. Battles, *'70.

William F. Salmon, '58, '59, †'60.

John W. Smith, '49, '50.

Amos B. French, *'70.

Albert A. Haggett, '68, '69, †'70.

Henry C. Howe, '53, '54.

Frederick Ayer.

Addison Putnam, '64, *'70.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69, '70.

Samuel G. Ladd, '70.

Francis N. J. Haviland.

Joel Knapp.

WARD 2.

William Dobbins, '67.

John L. Moulton, '70.

Patrick Cummiskey, '70.

Amos A. Blanchard.

WARD 3.

Henry P. Perkins, '60, '61, '70, President.

John L. Meadowcroft, '70.

Horace Ela.

Julius C. Jockow.

WARD 4.

Benjamin Walker, '65, '66.

Michael Corbett, '70.

Francis H. Chandler.

Charles T. Goddard.

WARD 5.

Jeremiah Crowley, '70.

Crawford Burnham.

Henry C. Church.

Patrick Lynch.

WARD 6.

Leonard Brown, '53, '54, '58, '59.

John Stott, '70.

Abel T. Atherton.

Nathaniel C. Sanborn.

GEORGE GARDNER, Clerk.

1872.**MAYOR:****JOSIAH G. PEABODY, *'50, '59, '60, †'65, †'66.****ALDERMEN:**

Henry C. Howe, '53, '54, *'71.	Frederick T. North, '65, '66, '67.
Alexander G. Cumnock.	Benjamin Walker, '65, '66, '71.
Benjamin Patch, '69, '70.	William Kelley, '68, '69.
Gustavus A. Gerry, '65, †'66, †'67.	Alpha B. Farr, '58, '69, '70.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59.
 Alonzo F. Caswell.
 Southwell Farrington.
 True P. Jordan.

WARD 2.

Leonard Brown, '53, '54, '58, '59, '71.
 Amos A. Blanchard, '71.
 Joseph S. Brown.
 Earl A. Thissell.

WARD 3.

Henry P. Perkins, '60, '61, '70, †'71, Pres.
 Horace Ela, '71.
 Julius C. Jockow, '71.
 Charles F. Tilton.

WARD 4.

Nathaniel P. Favor.
 Nathan W. Frye.
 Henry A. Lord.
 Alonzo L. Russell.

WARD 5.

Crawford Burnham, '71.
 Charles F. Belden.
 Luther J. Eames.
 William Shepard.

WARD 6.

Abel T. Atherton, '71.
 Nathaniel C. Sanborn, '71.
 Samuel M. Chase.
 Julian Talbot.

GEORGE GARDNER, Clerk.**1873.****MAYOR:****FRANCIS JEWETT, '64, '65, *'68, *'69.****ALDERMEN:**

Jonathan P. Folsom, '56, *'59, *'61, *'62, '67, †'69, †'70.	Charles A. F. Swan, elected January 14.
George Runels, '62, *'64.	Jacob H. Sawyer.
Edward Tuck, *'56, '58, *'59, declined.	Jeremiah Crowley, '70, '71.
Isaac Farrington, '46, '47, declined.	Alpha B. Farr, '58, '69, '70, *'72.
William Dobbins, '67, '71, elected Jan. 14.	George Stevens.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59, '72.
 Alonzo F. Caswell, '72.
 Frank Brady.
 Stephen J. Smiley.

WARD 2.

Joseph S. Brown, '72.
 Earl A. Thissell, '72.
 Daniel Stickney.
 Edward P. Woods.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71, Pres.
 Charles F. Tilton, '72, resigned March 1.
 William Bass.
 James Owens.
 James A. Loughlin, elected April 8.

WARD 4.

Atwell F. Wright, '63, '64.
 Nathaniel P. Favor, '72.
 Nathan W. Frye, '72.
 Henry A. Lord, '72.

WARD 5.

Robert H. Butcher, '66.
 Charles F. Belden, '72.
 Jared P. Maxfield.
 George Smith.

WARD 6.

Nathaniel C. Sanborn, '71, '72.
 Samuel M. Chase, '72.
 George W. S. Hurd.
 Artemas S. Tyler.

GEORGE GARDNER, Clerk.

1874.**MAYOR:****FRANCIS JEWETT, '64, '65, *'68, *'69, †'73.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73.	Jonathan Kendall, '42, '44, '52.
Benjamin Walker, '65, '66, '71, *'72.	George L. Huntoon, '66, '67.
Alonzo F. Caswell, '72, '73.	Nathaniel C. Sanborn, '71, '72, '73.
Joseph S. Brown, '72, '73.	George Stevens, *'73.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57.
 Frank Brady, '73.
 Stephen J. Smiley, '73.
 Charles H. Harvey.

WARD 2.

Daniel Stickney, '73.
 Edward P. Woods, '73.
 Charles J. Eastman.
 Edward E. Reed.

WARD 3.

Julius C. Jockow, '71, '72.
 James Owens, '73.
 James A. Loughlin, '73.
 George W. Tilton.

WARD 4.

Charles T. Goddard, '71.
 Nathan W. Frye, '72, '73, President.
 Jacob H. Sawyer, *'73.
 Julian A. Richardson.

WARD 5.

Jared P. Maxfield, '73.
 John B. Lyford.
 Samuel P. Marin.
 John Scott.

WARD 6.

George W. S. Hurd, '73.
 Joel A. Abbott.
 Thomas Carolin.
 Jason Fuller.

GEORGE GARDNER, Clerk, died May 29.**DAVID CHASE, Clerk, elected June 4.****1875.****MAYOR:****FRANCIS JEWETT, '64, '65, *'68, *'69, †'73, †'74.****ALDERMEN:**

Benjamin Walker, '65, '66, '71, *'72, *'74.	Hapgood Wright, '45, '46, *'56, *'69.
Jacob Rogers.	James Owens, '73, '74.
John A. Goodwin.	Alden B. Richardson.
Joseph S. Brown, '72, '73, *'74.	Samuel A. Chase.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57, '74.
 Charles H. Harvey, '74.
 John F. Howard.
 John W. Welch.

WARD 2.

Earl A. Thissell, '72, '73.
 Edward E. Reed, '74.
 William A. Read.
 Leavitt R. J. Varnum.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71.
 George W. Tilton, '74. [†'73, Pres.
 Charles Cowley.
 Thomas R. Garity.

WARD 4.

Josiah Butler.
 Francis Carll.
 Edward P. Dennis.
 Edward Stockman.

WARD 5.

James D. Hartwell, '70.
 John B. Lyford, '74.
 Orford R. Blood.
 Charles W. Sleeper.

WARD 6.

Joel A. Abbott, '74.
 Thomas Carolin, '74.
 Jason Fuller, '74.
 Albert D. Wright.

DAVID CHASE, Clerk.

1876.**MAYOR:****CHARLES A. STOTT, '59, '60, *'69, *'70.****ALDERMEN:**

Jacob Rogers, *'75.	Henry A. Hildreth.
John A. Goodwin, *'75. [† '73, † '75.	George E. Stanley.
Albert A. Haggett, '68, '69, † '70, *'71,	Francis Carl, '75.
Charles F. Belden, '72, '73.	William H. Wiggin, '57.

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John W. Welch, '75.
 Lewis Stiles.
 Daniel W. Manning.
 David M. Collins, '56, declined.
 John F. Howard, '75, elected January 11.

WARD 2.

Leavitt R. J. Varnum, '75.
 Charles E. Hallowell.
 Charles Callahan.
 William A. Read, '75.

WARD 3.

Charles Cowley, '75.
 Charles H. Kimball.
 Charles Runels.
 James Howard, died after election.
 William H. Grady, elected January 11.

WARD 4.

Edward Stockman, '75, resigned May 23.
 Gardner W. King.
 Stephen H. Jones.
 Charles D. Starbird.
 James W. Bennett, elected June 22.

WARD 5.

Orford R. Blood '75.
 John F. Kimball, President from May 23.
 Charles H. Hanson.
 M. Gilbert Perkins, '61, '67.

WARD 6.

Edwin Sanborn.
 Benjamin C. Dean, Pres., resig'd May 23.
 Charles H. Walker.
 John J. Pickman.
 Willis Farrington, elected June 22.

DAVID CHASE, Clerk.**1877.****MAYOR:****CHARLES A. STOTT, '59, '60, *'69, *'70, † '76.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74.	Orford R. Blood, '75, '76, seat vacated.
Horace R. Barker.	Stephen B. Puffer, declined el. January 2.
George E. Stanley, *'76.	Robert Park.
Charles H. Kimball '76.	George E. Pinkham, '69.
George P. Walker.	

SAMUEL A. MCPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Daniel W. Manning, '76.
 Lewis Stiles, '76.
 John Courtney.
 Frank Brady, '73, '74, resig'd March 27.
 Jared P. Maxfield, '73, '74, elected May 8.

WARD 2.

Charles E. Hallowell, '76.
 Francis D. Munn, '68, '69.
 Charles H. Robbins.
 Oliver M. Harding.

WARD 3.

William H. Grady, '76.
 Patrick Lynch.
 Simon Kelly.
 George E. Davis.

WARD 4.

Gardner W. King, '76.
 James W. Bennett, '76.
 Irving K. Goodale.
 Orinado Blodgett.

WARD 5.

John F. Kimball, † '76.
 Charles H. Hanson '76.
 Peter S. Coburn.
 Robert Goulding.

WARD 6.

Edwin Sanborn, '76.
 John J. Pickman, '76.
 Charles H. Walker, '76.
 Augustus E. Spaulding, dec. January 10
 George S. Cushing, elected February 6.

DAVID CHASE. Clerk.

MUNICIPAL REGISTER

1878.

MAYOR:

JOHN A. G. RICHARDSON.

ALDERMEN:

Stephen B. Puffer, *'77.
Robert Park, *'77.
Horace R. Barker, *'77.
George F. Scribner, '57.

George E. Scripture.
Joseph S. Pollard, '64, '65, [*'77.
Jeremiah Crowley, '70, '71, *'73, *'74,
Nathaniel C. Sanborn, '71, '72, '73, *'74.

SAMUEL A. McPHETRES, City Clerk.

COMMON COUNCIL:

WARD 1.

John Courtney, '77.
John J. Mealey.
Joseph M. Ambrose.
Charles H. Harvey, '74, '75.

WARD 2.

Oramel A. Brigham.
Edward M. Tucke.
William W. Clark.
Albert W. Monty.

WARD 3.

Simon Kelly, '77.
Edward Cawley.
Henry P. Morris.
Samuel D. Butterworth.

WARD 4.

Irving K. Goodale, '77.
Orlando Blodgett, '77.
Robert G. Bartlett.
Stephen H. Jones, '76.

WARD 5.

Robert Goulding, '77.
Peter S. Coburn, '77.
John F. Kimball, ‡ '76, ‡ '77, President
Enos O. Kingsley, '56.

WARD 6.

George S. Cushing, '77.
Eli W. Hoyt.
Luke B. Taylor.
Miles F. Brennan, to January 22.
Thomas Nesmith, from January 22.

DAVID CHASE, Clerk.

1879.

MAYOR:

JOHN A. G. RICHARDSON, † '78.

ALDERMEN:

Horace R. Barker, *'77, *'78.
Charles A. R. Dimon.
Joseph S. Pollard, '64, '65, *'78.
Charles S. Lilley.

George E. Scripture, *'78.
George F. Scribner, '57, *'78.
Charles F. Howe.
Robert Goulding, '77, '78.

SAMUEL A. McPHETRES, City Clerk.

COMMON COUNCIL:

WARD 1.

Joseph M. Ambrose, '78.
John O'Donnell.
James Kelly.
Richard J. Noonan.

WARD 2.

Albert W. Monty, '78.
Charles H. Richardson.
William K. Chase, resigned November 25.
Edwin A. Robinson.
Edward M. Tucke, '78, elected Dec. 9.

WARD 3.

Edward Cawley, '78.
Henry P. Morris, '78.
William T. Benson.
Patrick A. Rogers.

WARD 4.

Robert G. Bartlett, '78.
Fred Woodies.
Charles F. Varnum.
Charles E. Farrington.

WARD 5.

Albert W. Burnham.
Ambrose L. Ready.
Joseph M. Wilson.
Edward B. Peirce, President.

WARD 6.

Eli W. Hoyt, '78.
Luke B. Taylor, '78.
Major A. Shaw.
Miles F. Brennan, '78.

DAVID CHASE, Clerk.

1880.**MAYOR:****FREDERIC T. GREENHALGE, '68, '69.****ALDERMEN:**

James D. Hartwell, '70, '75.
 Atwill F. Wright, '63, '64.
 Charles H. Richardson.
 Edwin Lamson, '68, '69.

Isaac F. Scripture, *'62, *'63.
 Robert Wood.
 Charles H. Coburn.
 James C. Abbott.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

James Kelly, '79.
 Richard J. Noonan, '79.
 Thomas J. Flynn.
 Lawrence Cummings.

WARD 2.

Edwin A. Robinson, '79.
 Wilbur L. Bates.
 Samuel W. Foster.
 Earl A. Thissell, '72, '73, '75, President.

WARD 3.

Peter H. Donohoe.
 William T. Benson, '79.
 Patrick A. Rogers, '79.
 Frank Wood.

WARD 4.

Fred Woodies, '79.
 Charles F. Varnum, '79.
 Charles E. Farrington, '79.
 Charles D. Starbird, '76.

WARD 5.

Joseph M. Wilson, '79.
 Ambrose L. Ready, '79.
 Samuel Hosmer.
 Edward B. Peirce, †'79.

WARD 6.

Benjamin F. Freeman.
 J. Tyler Stevens.
 Charles C. Hutchinson.
 Henry C. Cooper.

DAVID CHASE, Clerk.**1881.****MAYOR:****FREDERIC T. GREENHALGE, '68, '69, †'80.****ALDERMEN:**

Charles H. Richardson, *'80.
 Isaac F. Scripture, *'62, *'63, *'80.
 Robert Wood, *'80.
 Ambrose L. Ready, '79, '80.

Levi Sprague, '59, '64.
 Julius A. Stiles.
 Samuel D. Butterworth, '78.
 Thomas R. Garity, '75.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Thomas J. Flynn, '80.
 Lawrence Cummings, '80.
 Robert J. Thomas.
 Jeremiah J. Hayes.

WARD 2.

Zachariah D. Hall.
 James M. Howe, '57, '59.
 Hubert M. Potter.
 Moses Gibson.

WARD 3.

Frank Wood, '80.
 Peter H. Donohoe, '80.
 John E. Maguire.
 D. Moody Prescott.

WARD 4.

Julius C. Johnson.
 Stephen C. Davis.
 Edward Garner.
 William N. Osgood.

WARD 5.

Atkinson C. Varnum.
 Samuel Hosmer, '80.
 Samuel P. Marin, '74.
 Albert W. Burnham, '79.

WARD 6.

Charles C. Hutchinson, '80.
 Albert G. Thompson.
 Thomas Nesmith, '78.
 Lawrence J. Smith.

DAVID CHASE, Clerk.

1882.**MAYOR:****GEORGE RUNELS, '62, *'64.****ALDERMEN:**

Thomas R. Garity, '75, *'81, Chairman.	D. Moody Prescott, '81.
* Charles W. Sleeper.	George S. Cushing, '77, '78.
George B. Smith.	John F. Phillips.
William A. Wright, '63, '66.	† John Welch.
David Whitaker.	

‡ SAMUEL A. MCPHETRES, City Clerk. § DAVID W. O'BRIEN, City Clerk.

* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy.

‡ Died Sept. 29, 1882

§ Elected Oct. 4, 1882.

COMMON COUNCIL:**WARD 1.**

Robert J. Thomas, '81.
Jeremiah J. Hayes, '81.
Dennis J. Crowley.
John A. Walsh.

WARD 2.

Zachariah D. Hall, '81.
James M. Howe, '57, '59, '81.
Moses Gibson, '81.
James F. Puffer, Jr.

WARD 3.

Frank Wood, '80, '81.
John E. Maguire, '81.
John J. Mead.
James Grady.

WARD 4.

Julius C. Johnson, '81.
Stephen C. Davis, '81.
Edward Garner.
William N. Osgood, '81, President.

WARD 5.

Atkinson C. Varnum, '81.
Albert W. Burnham, '79, '81.
Artemas B. Woodworth.
Horace B. Barnes.

WARD 6.

Albert G. Thompson, '81.
Lawrence J. Smith, '81.
Thaddeus S. Cobb.
Miles J. Fletcher.

DAVID CHASE, Clerk.

1883.**MAYOR:****JOHN J. DONOVAN.****ALDERMEN:**

John F. Phillips, *'82, Chairman.	D. Moody Prescott, '81, *'82.
George B. Smith, *'82.	George W. Fifield.
Robert J. Thomas, '81, '82.	John Welch, *'82.
David Whitaker, *'82.	Miles J. Fletcher, '82.

DAVID W. O'BRIEN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Dennis J. Crowley, '82.
John J. Hogan.
James H. Cabill.
Daniel Murphy.

WARD 2.

Samuel Lawrence, '50.
Joseph S. Brown, '72, '73, *'74, *'75.
Albert W. Monty, '78, '79.
John F. Thissell.

WARD 3.

James Grady, '82.
John J. Mead, '82.
Patrick J. Smith.
Frank J. Donohue.

WARD 4.

James G. Elliott.
Solomon K. Dexter.
Alonzo L. Russell, '72.
Geo. A. Bennett.

WARD 5.

Edward B. Pierce, ‡ '79, '80.
Artemas B. Woodworth, '82.
John P. Mahoney.
George L. Ashworth.

WARD 6.

Lawrence J. Smith, '81, '82.
Thaddeus S. Cobb, '82.
J. Frank Page.
Michael F. Clark.

DAVID CHASE, Clerk.

1884.**MAYOR:****JOHN J. DONOVAN, † '33.****ALDERMEN:**

Robert J. Thomas, '81, '82, *'83, Chair'n.	Jeremiah Crowley, '70, '71, *'73, *'74, *'77, *'78.
Miles J. Fletcher, '82, *'83.	Peter H. Donohoe, '80, '81.
George W. Fifield, '83.	Freeman B. Shedd.
Thaddeus S. Cobb, '82, '83.	
Edward B. Quinn.	

DAVID W. O'BRIEN, City Clerk.**COMMON COUNCIL:****WARD 1.**

John J. Hogan, '83, President.
 James H. Cahill, '83.
 Daniel Murphy, '83.
 James H. Morrison.

WARD 2.

Joseph S. Brown, '72, '73, *'74, *'75, '83.
 Albert W. Monty, '78, '79, '83.
 Earl A. Thissell, '72, '73, '75, † '80.
 John R. Pike.

WARD 3.

Patrick J. Smith, '83.
 Peter J. Brady.
 Thomas J. Sparks.
 John Nolan.

WARD 4.

James G. Elliott, '83.
 Solomon K. Dexter, '83.
 Alonzo L. Russell, '72, '83.
 George A. Bennett, '83.

WARD 5.

Edward B. Peirce, † '79, '80, † '83.
 George L. Ashworth,
 Joseph M. Wilson, '79, '80.
 James S. Hanson.

WARD 6.

J. Frank Page, '83.
 Michael F. Clark, '83.
 Alfred M. Chadwick.
 Marcellus H. Fletcher.

DAVID CHASE, Clerk.**1885.****MAYOR:****EDWARD J. NOYES.****ALDERMEN:**

John F. Phillips, *'82, *'83, Chairman.	James D. Hartwell, '70, '75, *'80.
John F. Howe, '57, '58, *'59.	George F. Penniman.
William D. Brown.	Oliver E. Cushing.
George E. Stanley, *'76, *'77.	James Francis.

SAMUEL M. CHASE, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Plunkett.
 James H. Morrison, '84.
 Thomas J. Enright.
 Henry F. Keyes.

WARD 2.

George W. Brothers.
 Walter M. Sawyer.
 James R. Fulton.
 Francis D. Munn, Jr.

WARD 3.

Peter J. Brady, '84.
 Patrick J. Smith, '83, '84.
 John Nolan, '84.
 Thomas J. Sparks, '84.

WARD 4.

Arnold S. Welch.
 George A. Roper.
 William A. Lang.
 Frank W. Howe.

WARD 5.

Wilson W. Carey.
 James S. Hanson, '84.
 Henry L. Newhall.
 Elwyn W. Lovejoy.

WARD 6.

Alfred M. Chadwick, '84, President.
 George R. Richardson.
 Luke B. Taylor, '78, '79.
 William H. White.

DAVID CHASE, Clerk.

1886.**MAYOR:****JAMES C. ABBOTT.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74, Daniel Wright.
 *'77, *'78, *'84, Chairman. Samuel D. Butterworth, *'78, *'81.
 John F. Phillips, *'82, *'83, *'85. George F. Penniman, *'85.
 Stephen B. Puffer, *'77, *'78. James Francis, *'85.
 George E. Stanley, *'76, *'77, *'85.

SAMUEL M. CHASE, City Clerk.**COMMON COUNCIL:****WARD 1.**

Peter B. Sherlock.
 Patrick H. Plunkett, '85.
 Thomas J. Enright, '85.
 Timothy H. Brennan.

WARD 2.

Walter M. Sawyer, '85, President.
 Charles H. Richardson, '79.
 James R. Fulton, '85.
 Francis D. Munn, Jr., '85.

WARD 3.

Daniel Cleary.
 Patrick J. Mahan.
 Edward D. McVey.
 Thomas J. Sparks, '84, '85.

WARD 4.

Arnold S. Welch, '85.
 George A. Roper, '85.
 Frank W. Howe, '85.
 William A. Lang, '85.

WARD 5.

Henry L. Newhall, '85.
 Elwyn W. Lovejoy, '85.
 Wilson W. Carey, '85.
 Roswell M. Boutwell, '85.

WARD 6.

Lawrence J. Smith, '81, '82, '83.
 John E. Drury.
 Charles H. Hobson.
 Marcellus H. Fletcher, '84.

DAVID CHASE, Clerk.**1887.****MAYOR:****JAMES C. ABBOTT, † '86.****ALDERMEN:**

Stephen B. Puffer, *'77, *'78, *'86, Chair'n. Peter H. Donohoe, '80, 81, *'84.
 Nathan D. Pratt. Miles J. Fletcher, '82, *'83, *'84.
 Francis C. Plunkett. Frederick Frye, '62, '63, *'68.
 August Fels. Marcellus H. Fletcher, '84, '86.

DAVID W. O'BRIEN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Michael J. Garvey.
 Dennis A. Sullivan.
 Daniel Murphy, '83, '84.
 Dennis J. Leary.

WARD 2.

Walter M. Sawyer, † '86.
 Charles H. Richardson, '79, '86.
 George C. Evans.
 Horace P. Beals.

WARD 3.

George B. McKenna.
 John Nolan, '84, '85.
 Daniel Cleary, '86.
 Patrick J. Smith, '83, '84, '85.

WARD 4.

Millard F. Wright.
 Edmund B. Conant.
 Jesse H. Shepard.
 Richard Dobbins.

WARD 5.

Roswell M. Boutwell, '86.
 George W. Brothers, '85.
 Clarence G. Coburn.
 James H. Carmichael, President.

WARD 6.

Richard B. Allen.
 John E. Drury, '86.
 Patrick Conlon.
 Edward Gallagher.

WILLIAM J. COUGHLIN, Clerk.

1888.**MAYOR:****CHARLES D. PALMER.****ALDERMEN:**

George A. Scribner.
George E. Putnam.
Charles Runels, '76.
Charles E. Carter.
Edward D. Holden.

Arthur Staples.
Roswell M. Boutwell, '86, '87.
Alfred M. Chadwick, '84, †'85, Chairm'n.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Dennis A. Sullivan, '87.
Dennis J. Leary, '87.
Daniel Murphy, '83, '84, '87.
Michael J. Garvey, '87.

WARD 2.

Frank J. Sherwood.
Horace P. Beals, '87.
Harry E. Shaw.
Pierre A. Brousseau.

WARD 3.

John F. Rogers.
Owen M. Donohoe.
Thomas J. Sparks, '84, '85, '86.
*John F. Roane.
†Patrick H. Brosnahan.
*Resigned Aug. 9. Special Election to
fill vacancy Sept. 18.
†Elected Sept. 18 to fill vacancy.

WARD 4.

*Millard F. Wright, '87.
Edmund B. Conant, '87, President.
Jesse H. Shepard, '87.
Richard Dobbins, '87.
†Alonzo G. Walsh.
*Resigned April 24. Special Election to
fill vacancy June 5.
†Elected June 5 to fill vacancy.

WARD 5.

Charles C. Hartwell.
Clarence G. Coburn, '87.
George W. Brother-, '85.
Joseph S. Lapierre.

WARD 6.

William E. Westall.
Frank Brown.
Richard B. Allen, '87.
Abbott Lawrence.

DAVID CHASE, Clerk**1889.****MAYOR:****CHARLES D. PALMER, †'88.****ALDERMEN:**

George A. Scribner, *'88.
Walter M. Sawyer, '85, †'86, '87.
George E. Putnam, *'88.
Edward D. Holden.

Roswell M. Boutwell, '86, '87, *'88, Ch'n.
John H. Fuller.
William F. Senter.
John E. Drury, '86, '87.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick J. Savage.
Joseph H. Callahan.
Daniel H. Courtney.
William J. Johnson.

WARD 2.

*Samuel C. George.
Pierre A. Brousseau, '88.
Arthur H. Cluer.
Frank J. Sherwood, '88.
†James Stuart Murphy.
*Res'd June 9. †Ele. July 2, to fill vacancy.

WARD 3.

Owen M. Donohoe, '88.
Stephen Garrity.
Patrick H. Brosnahan, '88.
Thomas J. Sparks, '84, '85, '86, '88.

WARD 4.

B. Frank Hale.
Edwards Cheney.
Alonzo G. Walsh, '88.
Frank Gray.

WARD 5.

Orford R. Blood, '75, '76.
Charles C. Hartwell, '88.
Henry W. Ladd.
Henry J. Draper.

WARD 6.

William E. Westall, '88, President.
Abbott Lawrence, '88.
Albert Crowell.
Frank Brown, '88.

DAVID CHASE, Clerk.

1890.**MAYOR:****CHARLES D. PALMER,** '88, † '89.**ALDERMEN:**

Albert D. Carter.

Watson A. Dickinson.

John E. Drury, '86, '87, *'89.

Edmund D. Fletcher.

John H. Fuller, *'89, Chairman.

Walter M. Sawyer, '85, † '86, '87, *'89.

Samuel E. Snow.

Joseph M. Wilson, '79, '80, '84.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Joseph H. Callahan, '89.

Daniel H. Courtney, '89.

William J. Johnson, '89.

Patrick J. Savage, '89.

WARD 2.

Newell Abare.

Arthur H. Cluer, '89.

Walter C. Coburn.

James Stuart Murphy, '89.

WARD 3.

Patrick H. Brosnahan, '88, '89.

Robert C. Gallagher.

Charles L. Marren.

Thomas J. Sparks, '84, '85, '86, '88, '89.

WARD 4.

Edwards Cheney, '89.

Frank Gray, '89.

B. Frank Hale, '89.

Alonzo G. Walsh, '88, '89, President.

WARD 5.

Orford R. Blood, '75, '76, '89.

Herbert M. Jacobs.

Henry W. Ladd, '89.

Louis P. Turcotte.

WARD 6.

Albert Crowell, '89.

Daniel D. Driscoll.

James Gookin.

Edward F. Spalding.

DAVID CHASE Clerk.**1891.****MAYOR:****GEORGE W. FIFIELD,** *'83, *'84.**ALDERMEN:**

Richard B. Allen, '86, '87.

James W. Cassidy.

Jeremiah Crowley, '70, '71, *'73, *'74, *'77,

*'78, *'84, *'86, Chairman.

Watson A. Dickinson, *'90.

Thomas J. Enright, '85, '86.

George H. Frye.

Stephen B. Puffer, *'77, *'78, *'86, *'87.

George F. Tilton.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry.

James F. Doherty.

John J. Sullivan.

Peter F. Garrity.

WARD 2.

Newell Abare, '90.

Adolphe Benard.

Walter C. Coburn, '90.

George H. Marston.

WARD 3.

Patrick J. Baxter.

John J. Gilbride.

Charles H. Marren, '90.

Thomas J. Sparks, '84, '85, '86, '88, '89,

'90, President.

WARD 4.

Edwin L. Giles.

Fred Horne.

Wallace G. Parkin.

Eugene C. Wallace.

WARD 5.

Herbet M. Jacobs, '90.

George D. Kimball.

John A. Speirs.

Louis P. Turcotte, '90.

WARD 6.

James A. Cawley.

James J. Dolan.

Daniel D. Driscoll, '90.

James Gookin, '90.

DAVID CHASE, Clerk.

1892.**MAYOR:****GEORGE W. FIFIELD, *'83, *'84, †'91.****ALDERMEN:**

Samuel D. Butterworth, *'78, *'81, *'86. Stephen J. Johnson.
 James W. Cassidy, *'91. Freeman W. Puffer.
 William J. Coughlin. Frank E. Stowell.
 Albert A. Haggett, '68, '69, †'70, *'71, Charles F. Varnum, '79, '80.
 *'76, Chairman.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL****WARD 1.**

John Brunette.
 James O'Neill,
 Joseph O'Rourke.
 John J. Sullivan, '91.

WARD 2.

Adolphe Benard, '91.
 George H. Marston, '91.
 Frank Scott.
 Hugh A. Thompson.

WARD 3.

Patrick J. Baxter, '91.
 John J. Gilbride, '91.
 Thomas J. Sparks, '84, '85, '86, '88, '89,
 '90, †'91, President.
 William H. Stafford.

WARD 4.

Edwin L. Giles, '91.
 Fred Horne, '91.
 Wallace G. Parkin, '91.
 Moses Wyman.

WARD 5.

Constant Henotte.
 Patrick H. Kehoe.
 Joseph A. McDonald.
 Charles W. Swan.

WARD 6.

William T. Benson, '79, '80.
 James J. Dolan, '91.
 Thomas F. Hoban.
 Michael F. McCarthy.

DAVID CHASE, Clerk.**1893.****MAYOR:****JOHN J. PICKMAN, '76, '77.****ALDERMEN:**

George R. Choate. Freeman W. Puffer, *'92.
 George C. Evans, '87. Stephen B. Puffer, *'77, *'78, *'86, *'87,
 Stephen J. Johnson, *'92. *'91.
 Elwyn W. Lovejoy, '85, '86. William E. Westall, '88, †'89, Chairman.
 Joseph A. McDonald, '92.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Brunette, '92.
 Patrick J. O'Brien.
 James O'Neil, '92.
 Fred H. Rourke.

WARD 2.

Charles H. Boisvert.
 Frank Scott, '92.
 Hugh A. Thompson, '92.
 George H. Tryder.

WARD 3.

Frank Dunlap.
 John J. Grady.
 John Joseph O'Connor.
 William H. Stafford, '92.

WARD 4.

George E. Barclay.
 William J. Hills.
 Charles T. Killpartrick.
 Moses Wyman, '92.

WARD 5.

Cyrille Constantineau.
 Patrick J. Custy.
 Charles H. Noble.
 James O'Sullivan.

WARD 6.

William T. Benson, '79, '80, '92, Pres.
 James J. Dolan, '91, '92.
 Thomas F. Hoban, '92.
 Anthony Robinson.

FRANK J. SIMONDS, Clerk.

1894.**MAYOR:****JOHN J. PICKMAN, '76, '77, † '93.****ALDERMEN:**

Charles N. Bagley.
 Watson A. Dickinson, *'90, *'91.
 Frank Dunlap, '93.
 Coolidge R. Johnson.
 Stephen J. Johnson, *'92, *'93.

Elwyn W. Lovejoy, '85, '86, *'93, Chair-
 man.
 George E. Stanley, *'76, *'77, *'85, *'86.
 William E. Westall, '88, † '89, *'93.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

Matthew M. Mansfield.
 Patrick J. O'Brien, '93.
 Fred H. Rourke, '93.
 John J. Ryan.

WARD 2.

J. Henry Collins.
 John G. Gordon.
 Fred W. Sanborn.
 George H. Tryder, '93.

WARD 3.

Joseph H. Gornley.
 John J. O'Connell.
 John Joseph O'Connor, '93.
 Thomas J. Sparks, '84, '85, '86, '88, '89,
 '90, † '91, † '92, President.

WARD 4.

George E. Barclay, '93.
 William L. Hills, '93.
 Charles T. Killpatrick, '93.
 Luther F. Kittredge.

WARD 5.

Patrick J. Cwsty, '93.
 Frederick E. Labarge.
 Charles H. Noble, '93.
 John Oliver.

WARD 6.

William T. Benson, '79, '80, '92, † '93,
 Died May 21, 1894.
 William F. Curtin.
 Charles Riley.
 Anthony Robinson, '93.
 Thomas O'Day, Elected July 17, '94.

FRANK J. SIMONDS, Clerk.**1895.****MAYOR:****WILLIAM F. COURTNEY.****ALDERMEN:**

Frank B. Dow.
 Frederic J. Flemings.
 William L. Hills, '93, '94.
 Charles E. Howe.

George H. Tryder, '93, '94.
 Daniel H. Varnum, Chairman.
 John C. Wilson.
 Moses Wyman, '92, '93.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry, '91.
 Thomas F. Garvey.
 Hugh Maguire, Jr.,
 Matthew M. Mansfield.

WARD 2.

Edwin S. Eastman.
 William Hounsell.
 Willis E. Morse.
 Fred W. Sanborn, '94.

WARD 3.

Patrick F. Delehanty.
 Joseph H. Gornley, '94.
 James F. Miskella.
 Timothy J. Reynolds.

WARD 4.

David Dickson.
 Edward T. Goward.
 Jonathan G. Hunton.
 Herbert E. Webster.

WARD 5.

Eugene E. Dennison.
 George W. Hartwell.
 John Oliver.
 Francis P. Rivet.

WARD 6.

William F. Curtin, '94, President.
 Thomas O'Day, '94.
 Charles Riley, '94.
 John E. Sullivan.

FRANK J. SIMONDS, Clerk.

1896.**MAYOR:****WILLIAM F. COURTNEY, †'95.****ALDERMEN:**Jeremiah Crowley, '70, '71, *'73, *'74,
*'77, *'78, *'84, *'86, Chairman.

Frank B. Dow, *'95.

Frederic J. Flemings, *'95.

Charles E. Howe, *'95.

John H. McAlvin.

James A. Pevey.

George H. Tryder, '93, '94, *'95.

Edward M. Tucke.

John C. Wilson, *'95.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Hounsell, '95, ward 2.

Jonathan G. Hunton, '95, ward 4.

Homer B. Nay.

WARD 2.

William J. Dunn.

Hugh Maguire, Jr., '95, ward 1.

Dennis J. Pendergast.

WARD 3.

David Dickson, '95, ward 4.

Frank H. Hallett.

Herbert M. Jacobs, '90, '91, ward 5.

WARD 4.

James F. Miskella, '95, ward 3.

Stephen O'Hare.

Timothy J. Reynolds, '95, ward 3.

WARD 5.

John P. O'Hare.

John E. Sullivan, '95, ward 6.

Charles E. Thornton.

WARD 6.

William E. Badger.

Sidney Drewett.

Edwin S. Eastman.

WARD 7.

George W. Hartwell, '95, ward 5.

Francis P. Rivet, '95, ward 5.

Lorenzo E. Smith.

WARD 8.

Fred A. George.

William H. Penn.

Herbert E. Webster, '95, ward 4, **Pres't.****WARD 9.**

Charles A. Eveleth.

Henry K. White.

Carl G. A. F. W. E. Pihl.

FRANK N. OWEN, Clerk.**1897.****MAYOR:****WILLIAM F. COURTNEY, †'95, †'96.****ALDERMEN:**

Charles H. Cosgrove.

Lucius A. Derby.

Edwin S. Eastman, '95, '96.

Edward T. Goward, '95.

George L. Hooper.

Charles E. Howe, *'95, *'96, Chairman.

Abbott Lawrence, '88, '89.

Edward B. Pierce, †'79, '80, †'83, '84.

Fred A. Tuttle.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Anadore B. Bosca.

Clarence W. Dana.

Samuel Scott.

WARD 2.

William J. Dunn, '96.

James Kennedy.

Dennis J. Pendergast, '96.

WARD 3.

William H. Brown.

James Smith.

Oliver D. Wilder.

WARD 4.

Francis M. Fagan.

James F. Miskella, '95, '96.

Stephen O'Hare, '96.

WARD 5.

George Farley.

Michael E. Sullivan.

Charles E. Thornton, '96.

WARD 6.

John H. Beaulieu.

Walter F. Leighton.

George H. Taylor.

WARD 7.

Clovis Belanger.

Lorenzo E. Smith, '96.

Lincoln R. Welch.

WARD 8.

Arthur W. Lang.

Charles F. Libby.

William H. Penn, '96, **President.****WARD 9.**

Butler Ames.

Louis B. Sykes.

Henry K. White, '96.

FRANK N. OWEN, Clerk.

1898.**MAYOR:****JAMES W. BENNETT, '76, '77.****ALDERMEN:**

Charles H. Cosgrove, *'97.

Lucius A. Derby, *'97.

Charles A. R. Dimon, *'79, Chairman.

Edward T. Goward, '95, *'97.

Guy Holbrook.

Oliver A. Libby.

Edward B. Peirce, †'79, '80, †'83, '84, *'97.

Francis P. Rivet, '95, '96.

Fred A. Tuttle, *'97.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Anadore B. Bosca, '97.

Clarence W. Dana, '97.

Charles D. Paige.

WARD 2.

Thomas F. Garvey, '95.

James Kennedy, '97.

Frank McMahon.

WARD 3.

James Smith, '97.

Burton H. Wiggin.

Oliver D. Wilder, '97.

WARD 4.

Francis M. Fagan, '97.

Michael J. Markham.

John J. Roark.

WARD 5.

George A. Farley, '97.

William J. McCluskey.

Michael Sullivan, '97.

WARD 6.

John H. Beaulieu, '97.

Walter F. Leighton, '97.

George H. Taylor, '97, President.

WARD 7.

Alfred J. Howe.

Charles H. Merrill.

Eben B. Stafford.

WARD 8.

Arthur W. Lang, '97.

Charles F. Libby, '97.

Anthony D. Mitten.

WARD 9.

Walter E. Murkland.

Louis B. Sykes, '97.

William D. Whittet.

FRANK M. DOWLING, Clerk.

1899.**MAYOR:****JEREMIAH CROWLEY, '70, '71, *'73, *'74, *'77, *'78, *'84, *'86, *'91, *'96****ALDERMEN:**

Sam Chapin.

Lucius A. Derby, *'97, *'98.

Charles A. R. Dimon, *'79, *'98.

Oliver A. Libby, *'98.

Philip McNulty.

James F. Miskella, '95, '96, '97.

Edward B. Peirce, †'79, '80, †'83, '84, *'97, *'98.

George H. Taylor, '97, †'98.

Oliver D. Wilder, '97, '98.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Herbert R. Baker.

Charles D. Paige, '98, President.

Francis E. Saunders.

WARD 2.

Patrick H. Barry, '91, '95.

Frank McMahon, '98.

John J. Mullaney.

WARD 3.

William H. Brown.

Chas. H. Flanders.

Burton H. Wiggin, '98.

WARD 4.

Timothy F. Donohoe.

Michael J. Markham, '98.

John J. Roark, '98.

WARD 5.

Frank S. Clark.

John F. Dillon.

John J. O'Brien.

WARD 6.

William E. Badger, '96.

George E. Burns.

James F. Walker.

WARD 7.

Philip Desmarais.

Lewis Lebrun.

Eben B. Stafford, '98.

WARD 8.

Fred E. Bean.

Ralph B. Lyman.

Anthony D. Mitten, '98.

WARD 9.

Henry Hatch.

Walter E. Murkland, '98.

William D. Whittet, '98.

FRANK M. DOWLING, Clerk.

1900.**MAYOR.**

JEREMIAH CROWLEY, '70, '71, *'73, *'74, *'77, *'78, *'84, *'86, *'91, *'96, †'99.

ALDERMEN.

William E. Badger, '96, '99.
Cyrus Barton.
John H. Beaulieu, '97, '98.
William H. Brown, '99.
James H. Carmichael, †'87.

Edward S. Howe.
Charles D. Paige, '98, †'99.
George H. Taylor, '97, †'98, *'99, **Chairman.**
William D. Whittet, '98, '99.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Herbert R. Baker, '99.
James G. Hill.
Francis E. Saunders, '99.

WARD 2.

Patrick H. Barry, '91, '95, '99.
Bernard F. Lee.
John J. Mullaney, '99.

WARD 3.

Otto Jensen.
Ephraim D. Livingston.
George McElroy.

WARD 4.

James B. Casey.
Timothy F. Donohoe, '99.
Michael J. Markham, '98, '99.

WARD 5.

T. Frank Clark.
John F. Dillon, '99.
Thomas J. McCaffrey.

WARD 6.

Pierre A. Brousseau, '88, '89.
George E. Burns, '99.
James F. Walker, '99, **President.**

WARD 7.

Alfred J. Howe, '98.
Louis Lebrun, '99.
Eben B. Stafford, '98, '99.

WARD 8.

Fred E. Bean, '99.
Anthony D. Mitten, '98, '99.
Charles E. Tilton.

WARD 9.

George Emsley. Henry Hatch, '99.
Daniel N. Pickering.

FRANK M. DOWLING, Clerk.

1901.**MAYOR.**

CHARLES A. R. DIMON, *'79, *'98, *'99.

ALDERMEN.

William E. Badger, '96, '99, *1900.
James H. Carmichael †'87, *1900.
Patrick Conlon, '87.
Philip Desmarais, '99.
Richard J. McCluskey.

James F. Miskella, '95, '96, '97, *'99, **Chairman.**
Joseph Mullin.
Gardner W. Pearson.
John J. Sullivan, '91, '92.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Herbert R. Baker, '99, 1900.
James G. Hill, 1900. Elected Pres. July 2, 1901.
Mark D. Taylor.

WARD 2.

Peter Daley.
Patrick J. O'Rourke.
John H. Spillane. Died April 16.
John J. Finder. Elected June 4.

WARD 3.

Otto Jensen, 1900.
Ephraim D. Livingston, 1900.
George McElroy, 1900.

WARD 4.

James B. Casey, 1900.
Timothy Donohoe, '99, 1900.
Michael J. Markham, '98, '99, 1900.

WARD 5.

T. Frank Clark, 1900.
Thomas J. McCaffrey, 1900.
George B. Roche.

WARD 6.

Pierre A. Brousseau, '88, '89, 1900, **President.**
Resigned July 2, 1901.
John A. Henderson.
Harry Swann.

WARD 7.

Louis Lebrun, '99, 1900.
Joseph A. Legare.
Albert S. Park.

WARD 8.

James P. Dugdale.
Albert F. Grant.
Charles E. Tilton, 1900.

WARD 9.

Charles H. Clough.

George Emsley, 1900.

Frank G. Lundberg.
FRANK M. DOWLING, Clerk.

MUNICIPAL REGISTER

1902.

MAYOR.

CHARLES A. R. DIMON, *79, *98, *90, † or. (Died May 21, 1902.)
WILLIAM E. BADGER, (Acting Mayor.)

ALDERMEN.

William E. Badger, '96, '99, *00, *01, Chairman. Lucius A. Derby, *97, *98, *99.
Cyrus Barton, *00. Charles H. Molloy.
William H. Brown, '99, *00. James O'Sullivan, '93.
George E. Burns, '99, '00. George F. Stiles.
James H. Carmichael, ‡'87, *00, *01.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.

WARD 1.

Cecil L. Adams.
James G. Hill, '00, '01, President.
Mark D. Taylor, '01.

WARD 2.

Frederick Cronan.
Peter Daley, '01.
John J. Pinder, '01.

WARD 3.

Asa B. Hilliard.
Thomas G. Little.
Charles H. Worcester.

WARD 4.

James B. Casey, '00, '01.
Timothy Donohoe, '99, '00, '01.
Patrick F. Welch.

William G. Brown.

WARD 5.

John F. Dillon, '99, '00.
Hugh Finnerty.
George B. Roche, '01.

WARD 6.

John A. Henderson, '01.
Elie C. Laporte.
Harry Swan, '01.

WARD 7.

Edmond P. Fontaine.
Joseph A. Legare, '01.
Albert S. Park, '01.

WARD 8.

William Fairweather.
Albert F. Grant, '01.
Hamlet S. Greenwood.

WARD 9.

Daniel N. Pickering, '00.
FRANK M. DOWLING, Clerk.

John S. Palm.

1903.

MAYOR.

CHARLES E. HOWE, *95, *96, *97

ALDERMEN.

George E. Burns, '99, '00, *02
James B. Casey, '00, '01.
Lucius A. Derby, *97, *98, *99, *02.
James J. Gallagher.
David Gerow.

James G. Hill, '00, '01, †'02.
Richard J. McCluskey, *01.
James F. Miskella, '95, '96, '97, *92, *01, Chn..
Charles H. Molloy, '02.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.

WARD 1.

Cecil L. Adams, '02, President.
James W. Barry.
James J. Hayes.

WARD 2.

Thomas J. Conners.
Frederick Cronan, '02.
John J. Pinder, '01, '02.

WARD 3.

Thomas H. Braden.
Asa B. Hilliard, '02.
Charles H. Worcester, '02.

WARD 4.

Dennis J. Cooney.
Timothy Donohoe, '99, '00, '01, '02.
Patrick F. Welch, '02.

WARD 5.

Hugh Finnerty, '02.
Frank A. McLaughlin.
George B. Roche, '01, '02.

WARD 6.

Frederick G. Baldwin.
Samuel Fleming.
C. Fred Hard.

WARD 7.

Edmond P. Fontaine, '02.
William J. Hayes.
Andrew Livingston.

WARD 8.

William H. Dodge.
William Fairweather, '02.
Hamlet S. Greenwood, '02.

WARD 9.

William G. Brown, '02.
John S. Palm, '02.
John W. Daly.

FRANK M. DOWLING, Clerk.

1904.**MAYOR.**

CHARLES E. HOWE, * '95, * '96, * '97, † '03.

ALDERMEN.

James H. Carmichael, † '87, * '00, * '01, * '02.
 William Fairweather, '02, '03.
 James J. Gallagher, * '03.
 David Gerow, * '03.
 Albert F. Grant, '01, '02.

James G. Hill, '00, † '01, † '02, * '03.
 James F. Miskella, '95, '96, '97, * '99, * '01, * '03. [Chairman.
 Albion C. Taylor.
 William H. Wilson.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

James W. Barry, '03.
 James H. Fleming.
 James J. Hayes, '03.

WARD 2.

Thomas J. Connors, '03.
 Frederick Cronan, '02, '03.
 Michael J. Quinn.

WARD 3.

Thomas H. Braden, '03, President.
 Edmund J. Cheney.
 Charles H. Worcester, '02, '03.

WARD 4.

Daniel Cosgrove.
 John P. Mahoney.
 Patrick F. Welch, '02, '03.

WARD 5.

John Donohue.
 Andrew McAloon,
 Frank A. McLaughlin, '03

WARD 6.

Frederick G. Baldwin, '03.
 John H. Blake.
 Samuel Fleming, '03.

WARD 7.

William J. Hayes, '03.
 Charles H. May.
 William G. McIntyre.

WARD 8.

William H. Dodge, '03.
 Solomon S. Mayberry.
 George W. Peterson.

WARD 9.

Burton H. Crosby

John S. Palm, '02, '03.

Charles W. Stott.

FRANK M. DOWLING, Clerk.

1905.**MAYOR.**

JAMES B. CASEY, '00, '01, '02, * '03.

ALDERMEN.

Otis Allen
 Thomas H. Braden, '03, † '04.
 James H. Carmichael, † '87, * '00, * '01, * '02, * '04
 Daniel Cosgrove, '04.
 William Fairweather, '02, '03, * '04.

Albert F. Grant, '01, '02, * '04, (Chairman.)
 William J. Hayes, '03, '04.
 Fred H. Rourke, '03, '04.
 James F. Walker, '99, † '00.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1**

James H. Fleming, '04,
 James J. Hayes, '03, '04.
 Charles F. Morse.

WARD 2

Frederick Cronan, '02, '03, '04.
 Jeremiah A. Daly.
 Frank McMahon.

WARD 3

Edmund J. Cheney, '04.
 Harry H. J. Read.
 Wesley M. Wilder.

WARD 4

Henry F. Carr.
 Dennis J. Donohue.
 John P. Mahoney, '04.

WARD 5

John Donohue, '04
 Andrew McAloon, '04.
 Edward F. Shea.

WARD 6

Frederick G. Baldwin, '03, '04.
 John H. Blake, '04.
 Norman W. White.

WARD 7

J. Omer Allard.
 Leon Marcotte
 William G. McIntyre, '04.

WARD 8

William H. Dodge, '03, '04, President.
 Charles N. Leach,
 Solomon S. Mayberry, '04.

WARD 9

Charles H. Clough, '01.

John W. Daly, '03.

Burton H. Crosby, '04.

FRANK M. DOWLING, Clerk.

EIGHTIETH ANNUAL REPORT
OF THE
School Committee
OF THE
CITY OF LOWELL, MASS.
AND THE
FORTY-SECOND ANNUAL REPORT
OF THE
Superintendent of Public Schools
1905



LOWELL, MASS.
BUTTERFIELD PRINTING COMPANY.
1906

CITY OF LOWELL

OFFICE OF THE SCHOOL COMMITTEE,

LOWELL, MASS., January, 1, 1906

At a meeting of the School Committee, held January 1, 1906, it was voted that the Committee on Reports and the Superintendent of Schools have leave to print their annual reports for the year 1905.

In accordance with this vote the reports are herewith submitted.

A. K. WHITCOMB, Secretary.

ORGANIZATION
OF THE
School Committee
1905

WILLIAM W. DUNCAN, President.

ARTHUR K. WHITCOMB, Secretary.

Ward 1 —	WILLIAM W. DUNCAN, 21 Hildreth Bldg.	Term expires	1905
“ 2 —	JOHN J. HANLON, 169 Broadway	“ “	1905
“ 3 —	ANDREW S. WOOD, 598 School St.	“ “	1906
“ 4 —	WILLIAM F. REGAN, 79 Kinsman St.	“ “	1905
“ 5 —	EUGENE C. QUEENAN, 54 Pond St.	“ “	1906
“ 6 —	HARRY SWANN, 94 Beech St.	“ “	1906
“ 7 —	ANDREW G. SWAPP, 307 Pawtucket St,	“ “	1905
“ 8 —	CHARLES W. TAYLOR, M. D., 17 Kirk St.	“ “	1906
“ 9 —	HUGH WALKER, D.D.S., 3 Wyman's Exchange	“ “	1905

STANDING COMMITTEES

- ON TEACHERS AND SALARIES — Messrs. Swapp, Duncan, Regan.
- ON BOOKS AND SUPPLIES — Messrs. Hanlon, Taylor, Swann, Wood, Walker.
- ON EVENING SCHOOLS — Messrs. Wood, Swapp, Taylor, Swann, Hanlon.
- ON HIGH SCHOOL — Messrs. Duncan, Swapp, Taylor, Queenan, Regan.
- ON EVENING DRAWING SCHOOLS — Messrs. Taylor, Duncan, Walker.
- ON MUSIC — Messrs. Queenan, Wood, Hanlon.
- ON REPORTS AND PRIVATE SCHOOLS — Messrs. Walker, Wood, Hanlon.
- ON ACCOUNTS — Messrs. Swann, Duncan, Queenan.
- ON SCHOOL HOUSES AND HYGIENE — Messrs. Walker, Regan, Swann.
- ON RULES — Messrs. Regan, Queenan, Swapp.

ASSIGNMENT OF SCHOOLS

- MR. DUNCAN — High, Edson, Kirk street, Cottage street.
- MR. HANLON — Green, Worthen street, Cheever street, Morrill, Morrill Kindergarten.
- MR. WOOD — Lincoln, Howard street, Grand street, Plain street, Lincoln and Plain street Kindergartens.
- MR. REGAN — High, Butler, London street, Weed street, Agawam street, Carter street, Lyon street, Agawam street and Chapel street Kindergartens.
- MR. QUEENAN — High, Charles street, Central street, Ames street, Fayette street, Charles street Kindergarten.
- MR. SWANN — Varnum, West Sixth street, Tenth street, Lakeview Avenue, Billings street, Varnum Kindergarten.
- MR. SWAPP — High, Bartlett, Pawtucket, Training, Cross street, Cabot street, New Moody street, Lexington Avenue, Pawtucket and Bartlett Kindergartens.
- MR. TAYLOR — High, Highland, Franklin, Dover street, Powell street, Pine street, Middlesex Village, Franklin, Dover and Pine street Kindergartens.
- MR. WALKER — Moody, Pond street, High street, Sycamore street, Moody Kindergarten.

ASSIGNMENT OF EVENING SCHOOLS

- MR. WOOD — High, Edson, Railroad street.
MR. SWAPP — Bartlett, Green, Cheever, Pawtucket.
MR. SWANN — Varnum, Aiken avenue, Old Moody, Colburn.
MR. TAYLOR — Mann, Worthen street.
MR. HANLON — Butler, Franklin.
-

ARTHUR K. WHITCOMB, Superintendent of Public Schools.

Office in City Hall.

OFFICE HOURS — One hour after the forenoon session of schools and from 2 to 3 o'clock on Saturday afternoon. Telephone 566-4.

School Supply Room.

Open 8 a. m. to 12.30 p. m. and 1 to 5 p. m. Telephone 506-2.

TRUANT COMMISSIONERS

GEO. F. STURTEVANT, JAMES KELLY, WM. F. THORNTON
CAMILLE ROUSSIN.

Office in City Hall, Third Floor.

OFFICE HOURS—Saturday, 2 to 3 o'clock p. m. Other days, 4 to 5 o'clock, p. m., except during the summer vacation, when the office will be open from 9 to 10 o'clock a. m.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE

January 31.	February 28.	March 28.	April 25.
May 31.	June 27.	July 25.	August 29.
September 26.	October 31.	November 28.	December 26.

ORGANIZATION
OF THE
School Committee
1906

WILLIAM W. DUNCAN, President.
ARTHUR K. WHITCOMB, Secretary.

Ward 1 — WILLIAM W. DUNCAN, 21 Hildreth Bldg.	Term expires 1907
" 2 — JOHN J. SULLIVAN, 318 Suffolk St.	" " 1907
" 3 — ANDREW S. WOOD, C. I. Hood & Co.	" " 1906
" 4 — JOHN W. HAMILTON, 41 Hudson St.	" " 1907
" 5 — EUGENE C. QUEENAN, 54 Pond St.	" " 1906
" 6 — HARRY SWANN, 94 Beech St.	" " 1906
" 7 — ANDREW G. SWAPP, 307 Pawtucket St.	" " 1907
" 8 — CHARLES W. TAYLOR, M. D., 17 Kirk St.	" " 1906
" 9 — J. B. ALBERT JOHNSON, 118 Moore St.	" " 1907

STANDING COMMITTEES

- ON TEACHERS AND SALARIES — Messrs. Swapp, Duncan, Queenan.
- ON BOOKS AND SUPPLIES — Messrs. Taylor, Swann, Wood, Hamilton, Sullivan.
- ON EVENING SCHOOLS — Messrs. Wood, Swapp, Taylor, Swann, Sullivan.
- ON HIGH SCHOOL — Messrs. Duncan, Swapp, Taylor, Queenan, Hamilton.
- ON EVENING DRAWING SCHOOLS — Messrs. Johnson, Duncan, Queenan.
- ON MUSIC — Messrs. Johnson, Wood, Sullivan.
- ON REPORTS AND PRINTING — Messrs. Wood, Taylor, Hamilton.
- ON ACCOUNTS — Messrs. Swann, Johnson, Queenan.
- ON SCHOOL HOUSES AND HYGIENE — Messrs. Swann, Johnson, Hamilton.
- ON RULES — Messrs. Duncan, Swapp, Sullivan.
-

ASSIGNMENT OF SCHOOLS

- MR. DUNCAN — High, Edson, Kirk street, Cottage street.
- MR. SULLIVAN — Green, Worthen street, Cheever street, Morrill, Morrill Kindergarten.
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- MR. HAMILTON — High, Butler, London street, Weed street, Agawam street, Carter Street, Lyon street, Agawam street and Chapel street Kindergartens.
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- MR. TAYLOR — High, Highland, Franklin, Dover street, Powell street, Pine street, Middlesex Village, Franklin, Dover and Pine street Kindergartens.
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MR. SWAPP — Bartlett, Green, Pawtucket, Cheever.
MR. SWANN — Varnum, Aiken avenue, Colburn, Moody.
MR. TAYLOR — Mann, Worthen.
MR. SULLIVAN — Butler, Franklin.
-

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to 10 o'clock, a. m.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE

January 30.	February 27.	March 27.	April 24.
May 29.	June 26.	July 31.	August 28.
September 25.	October 30.	November 27.	December 26.

REPORTS

Report of the School Committee

The committee on reports, complying with the statutes of the Commonwealth, hereby respectfully submit the annual report of the School Board of Lowell for the year nineteen hundred and five.

It is with much satisfaction that we announce that our schools are enjoying at the present time a prosperity almost unprecedented. Pupils and teachers have been singularly blessed with good health, and the fruits of this priceless possession have been conspicuous in the improved attendance, deportment and scholarship of the pupils, and the added efficiency of their faithful instructors. Through the untiring efforts of Mr. A. K. Whitcomb, our superintendent, and his corps of cultured assistants, Lowell has become a beacon light in the educational realm of New England. This standard, however, could only be possible with superior service, which we pride ourselves in having, but which we regret to say is still inadequately compensated. Financial conditions do not yet appear to warrant a general increase in teachers' salaries, although such has been

contemplated for some time and the first step in this direction was taken last year when the salaries of the High School teachers were advanced in accordance with a graduated scale which the committee adopted at that time and which scale we earnestly hope all teachers will be the beneficiaries of in the very near future.

It is also our pleasure to report that the average per cent. of attendance of the children between the ages of five and fifteen is well maintained in all our schools, and we are gratified to note the marked increased attendance at the High School as compared with ten years ago. In 1895 the number of pupils belonging in High School was 633 and the number belonging in 1905 was 884, an increase of 40 per cent., showing that the people of Lowell appreciate the advantages of a higher education for their children.

While the School Board warmly commends the citizens of Lowell for their endeavors to give their sons and daughters every opportunity to advance in knowledge, it mentions in fear and trembling that this extended education costs the department *money*. An obvious conclusion, yet there are those who fail to see why the schools cost more now than they did fifty years ago.

With the establishment and equipment of a commercial course in our high school a few years ago an expense equal to one dollar per pupil for the whole school has been incurred by reason of the additional number of male teachers required and the high-priced

supplies necessary for this course. But the High School earned in tuitions this year upwards of sixty-five hundred dollars which if deducted from the general expenses of the school would reduce the cost per pupil to about thirty-three dollars — a sum much below the average cost per pupil in the other high schools in the State. The excellent reputation of the Lowell High School amply justifies the cost of its maintenance.

The increased cost of the school department in recent years is due mainly to the removal of the residents from the central part of the city to the outlying districts, thus reducing the number of pupils per teacher in the existing schools and at the same time creating a demand for schools and teachers in the new localities. This condition is not confined to any particular locality or to any particular grade of schools ; all are affected more or less. But the Colburn Grammar School has suffered a decided decrease and may ultimately be abandoned.

Another cause for the department's heavy expense this year was the many imperative repairs, including improvements in heating and ventilating, for which the City Government failed to make the necessary appropriation, and consequently they had to be paid for out of the school fund.

The pressing need of better accommodation for the pupils in some of our schools is a matter which demands the immediate attention of the City Government. In

the Butler School for example, the children are obliged, for the lack of better facilities, to take their recreation either in the basement of the building or in the public street, a state of affairs wherein not only is the health of the little ones jeopardized but their very lives are in peril. And with the event of new industries in this neighborhood, the population will naturally increase; and where shall the new pupils be taken care of when this school is already over-crowded?

The Howard and Grand street schools, which have been, because of the committee's vigilance in maintaining them in a sanitary condition, a burden of expense for several years, should be replaced as soon as possible by one eight-room building which should have a central location and which should accommodate the primary scholars now in the Abraham Lincoln school building, who are occupying rooms needed for grammar pupils next term.

The Ennell street school in Centralville when completed will suffice for the present needs of this section. It would make an ideal situation for the Training School in the event of its having to remove from the Colburn School.

The temporary annex erected in the Highland school yard does not relieve the crowded condition of this school as was expected. The greatest benefit to this school, with regard to efficiency and economy would accrue from the addition of a twelve-room wing to the building.

The committee does not think it advisable to build at present a new school house on the land purchased by the city this year in the Highlands.

The cost per room for supervision alone in a six-room school would be two hundred and fifty dollars more than in a twenty-four-room school.

The re-organization of the Evening Drawing School this year has resulted in greater efficiency in the teaching department and in a more economical management. The number of teachers has been reduced, the studies are confined to mechanical and free hand drawing and architecture only, and the entire school has been placed under the supervision of the Superintendent of Schools. The salary saving will be fully \$1200.

Early in the year the committee on private schools with the superintendent visited the following parochial schools: St. Michael's, Sacred Heart, Immaculate Conception, St. Patrick's and St. Joseph's. The committee were cordially received everywhere throughout their visit and were given every opportunity to examine into the courses of study pursued and were pleased to find that they were in every respect equivalent to those of the public schools. The principals were advised to take advantage of the rule adopted by the school board last year in regard to admitting to the High School pupils from private schools on recommendation of their principals, and as a result 34 pupils from these schools entered High School in September, and the satisfactory

working of this rule thus far proves the wisdom of its adoption.

For statistics and further details of topics touched upon in this report you are respectfully referred to the report of the Superintendent of Schools.

HUGH WALKER
ANDREW S. WOOD
JOHN J. HANLON

Committee on Reports

REPORT OF THE Superintendent of Schools.

Office of the Superintendent of Schools,
December 31, 1905.

Gentlemen of the School Committee:

In accordance with your rules, I have the honor to submit the following as my report for the year 1905:

SUMMARY OF STATISTICS.

Value of real and personal property	\$71,645,718
Population by census of 1905	94,845
Number of polls	26,087
Increase for the year	532
Number of children between five and fifteen years of age, September 1, 1905	14,658
Ward One, 838 Ward Six, 2064	
“ Two, 1115 “ Seven, 3033	
“ Three, 1428 “ Eight, 1712	
“ Four, 1693 “ Nine, 1602	
“ Five, 1173	
Increase in the year	368

Number of public schools	59
One High, nine Grammar, thirty-three Primary, two Mixed, one Training, thirteen Kindergartens.	
Number of public school buildings	54
Number of school rooms in actual use	290
High 34; Grammar, 122; Primary, 117; Mixed, 4; Kindergarten, 13.	
Number of teachers Dec. 31, including clerk at H. S....	343
Elected, 308; appointed, 21; Practice Class, 12; Librarian at High School, 1; Clerk at High School, 1.	
Elected teachers on leave, 6; in actual service	302
Subdivisions of Elected Teachers:	
High, 34, 11 men, 23 women; Grammar, 119, 9 men, 110 women; Primary, 110 women; Training, 10 women; Mixed, 4 women; Kindergarten, 25 women; Drawing, 2, 1 man, 1 woman; Music, 2, 1 man, 1 woman; Kindergarten supervisor, 1 woman; Sew- ing, 1 woman.	
Teachers in Evening Schools, term of 1904-5.....	184
High, 24; Elementary, 138; Drawing, 22.	
Pupils enrolled in Evening Schools, term of 1904-5.....	4,557
High, 1047; Elementary, 3023; Drawing, 487.	
Whole number of pupils enrolled in Day Schools.....	12,338
High, 962; Grammar, 5147; Primary, 5347; Mixed, 132; Kindergarten, 750.	

Average number belonging to Day Schools	10,502
High, 884; Grammar, 4684; Primary, 4390; Mixed, 109; Kindergarten, 435.	
Average attendance	9,644
High, 830; Grammar, 4369; Primary, 4000; Mixed, 100; Kindergarten, 345.	
Average number belonging to each teacher	34
High, 28; Grammar, 35; Primary, 37; Mixed, 27; Kindergarten, 17.	
Average belonging to each room	37
High, 26; Grammar, 38; Primary, 38; Mixed, 27; Kindergarten, 33.	
Average per cent. of attendance	92
High, 94; Grammar, 93; Primary, 91; Mixed, 91; Kindergarten, 79.	
Average cost of each pupil, for tuition only, based on the average number belonging	\$21.19
High, \$42.43; Grammar, \$19.05; Primary, and Mixed, \$16.43; Kindergartens, \$28.78.	

RECEIPTS AND EXPENDITURES.

Receipts.

Appropriated and assessed in 1905 \$311,000.00

Expenditures.

Paid to teachers of day schools:—

High School	\$ 37,507.50	
Grammar Schools—Bartlett School,	\$ 8,498.94	
Butler School,	12,823.96	
Edson School,	8,584.13	
Green School,	8,569.74	
Highland School,	12,602.69	
A. Lincoln School,	7,902.12	
Moody School,	7,298.43	
Pawtucket School,	6,148.02	
Varnum School,	12,418.74	
		84,846.77
Primary and Mixed Schools		71,562.54
Training School		11,790.56
Kindergartens		12,522.75
Special teachers		4,243.50
Total paid for instruction in day schools,.....		222,473.62

Evening Schools:—

Teachers	\$16,620.00	
Janitors	2,105.00	
		18,725.00

Drawing Schools:—

Teachers	\$3,415.50	
Janitor	83.00	
		3,498.50

Amount carried Forward \$244,697.12

Amount brought forward \$244,697.12

Cost of supervision:—

Salary of Superintendent of Schools.....	\$3,000.00
Office Assistant	600.00
Truant officers (four)	4,100.00
Assistant in supply room	663.75
	<u>\$8,363.75</u>

Total of Salaries \$253,060.87

Bills.

Fuel, (coal \$20,168.84; wood \$859.00)	\$21,027.84
Water	1,061.60
Gas for day schools	468.60
Gas for evening schools	1,094.57
Repairs by Supt. Public Buildings	4,041.67
Repairs, furniture, curtains, etc.....	937.16
Electrical repairs and maintenance	881.97
Text books	8,279.68
Writing and drawing books, etc.....	5,406.32
Bills of County, board of truants	3,036.88
Printing, including annual report	1,405.77
Kindergarten equipment and supplies	485.33
Janitors' supplies	1,276.04
Board of horses, repairs of wagons, etc.....	763.11
Electricity for power	<u>1,897.47</u>

Amounts carried forward \$52,064.01 253,060.87

<i>Amounts brought forward</i>	\$52,064.01	253,060.87
Electric lighting	891.31	
Material for sewing classes	216.04	
Supplies and equipment for High School	745.55	
High School Regiment	281.50	
Graduations	509.49	
Rent of Room and Land	366.00	
Telephone	40.01	
Miscellaneous	1,071.06	
Total of bills	\$ 56,184.97	
Total expenditures	\$309,245.84	
Balance to Treasury Fund	\$1,754.16	

SCHOOL HOUSES.

Receipts.

Appropriated and assessed	\$70,254.81	
Received from other sources	3,461.30	
Total	\$73,716.11	

Expenditures.

Janitors	\$43,001.93	
General Repairs and Labor	16,633.55	
Sundries	14,080.63	
Total	\$73,716.11	

Ennell Street School House.

Appropriated	\$60,000.00	
Expended on Building	23,275.98	
Balance Jan. 1, 1906	\$36,724.02	

Lyon Street Annex.

Paid for Land and Building	\$5,200.00	
Alterations and Repairs	140.16	
Total	\$5,340.16	
Paid for land corner of So. Wilder and Avery Sts.	\$2,200.00	

SCHOOL CENSUS AND ATTENDANCE.

The enumeration of children between five and fifteen years of age made by the truant officers in September, resulted in a record of 14,658 names, a gain of 368 over the school census of 1904. The attendance upon the public schools in the same month was 10,984, and as nearly half as many more pupils were in private and parochial schools it is evident that nearly all children of school age were in schools of one kind or another, a conclusion which was well corroborated by the investigations of the census takers. They found, indeed, only about a dozen families, the most of them new-comers, who were remiss in their duty as to the education of their children, and these promised an immediate reform. In most cases the promise was kept, and in the few where it was not the children were so followed up that by the time the census was finished all children disclosed by it were in school. The advantage of having the census taken at the beginning of the year instead of in May, as formerly, is obvious, especially if, as with us, it is taken by the truant officers. The census this year was taken by Messrs. Thornton, Williams and Roussin, Mr. Kelly giving his whole time in September to truant work.

RECEIPTS AND EXPENDITURES.

Salaries in day schools were larger than in 1904 by \$5,694, and in evening schools by about \$1,000. The increase in day school expenditures was due in part to an increase in the number of teachers and in part to an increase of salaries in a few individual cases and to all temporary or newly elected teachers. Forty years ago a young woman with only a grammar school education could be elected without training or experience, if she could get votes enough, and very properly she was required to begin with less than maximum pay. For many years the rule was to pay inexperienced substitutes and

temporary teachers \$1.25 a day and newly elected teachers \$450 for their first year, \$500 for the second and maximum salary, \$600, thereafter. As it is now, no inexperienced teachers are ever employed, except for temporary service in case of emergency, and no teachers have been elected in recent years who have not added at least three years of successful experience to a college or normal education. This is more both of training and experience than was formerly required to enable a teacher to reach maximum salary, and the committee feel that under the changed conditions it is no longer fair to withhold full pay for two years after election. Teachers now, therefore, receive \$600 as soon as elected, and all teachers serving under temporary appointment receive \$2.50 a day. That this is just is generally conceded, but it increases totals all the same, and an increase in totals is always unpopular, even with those who approve in detail the larger payments which produce the increased aggregate. Increased expenditure in evening schools was due to an increase in the number of teachers and not at all to higher pay.

It is very popular in some quarters to compare the cost of the schools and the number of pupils ten or twenty years ago with the same items today, and to show that expenses have increased in a far greater proportion than has the number of pupils. That this is a fact cannot be denied, and it is well, I think, that the reason for it should be frankly stated. The increase, then, is not due to a general increase in salaries, for the pay of grade teachers has not changed in forty years, although the cost of living has increased in that time by one-third and the wages of almost everybody else have increased proportionately. Nor is it due to that part of the department's expenses which we designate as bills in distinction from salaries. Despite the fact that improved systems of ventilation require nearly twice as much coal, to say nothing of the cost of electric motors for ventilating purposes; that we now have to pay several thousand dollars a year for board of truants in a school which did not exist in the days of our fathers, more's the pity; that we now earn about \$7,000 a year in tuitions for which we receive no credit; despite these things and a dozen others like them, the expense per pupil for items other than instruction has not materially increased since free text books were introduced in 1881.

Expenses have increased largely, however, in two directions: First, the high school has more than doubled in size in quite recent years, and this increase has been largely in two new departments, those of manual training and of practical business. Both of these

departments are exceedingly popular; no citizen would wish them to be less than they are, but, both in supplies and in cost of instruction, (men teachers instead of women) they are undeniably costly. The same is true of kindergartens, which are good enough so that no one dares face the public with a serious proposition to abolish them, but which are also costly in comparison with the number of children in them. Far more effective than either of these things, however, is the decrease in the number of pupils assigned to each teacher. Were we willing to return to conditions like those when Miss Neal, who is still with us, began teaching in Lowell we could cut all our expenditures in halves at once, and save fully \$100,000! She had more than 200 different pupils in her room in one year, once, and kept up an average of 90 in actual daily attendance, divided into all the grades of the primary school at that, and with promotions to a grammar school four times each year. Today our average is less than 34 to the teacher, and more than one grade in a room is a rarity. No longer ago than ten years the average per teacher was 42, and a return to that number would decrease our expenses for salaries more than \$40,000. The question for the public to decide is whether the decrease in pupils is worth the increase in cost. It is but fair to say that teachers, schoolmen of all classes, and citizens generally so far as I know, are pretty nearly unanimous in favoring the decrease in number of pupils to the teacher, but those who favor, and those who do not, if there are any such, ought to know, as they will if they study carefully the conditions here stated, just where to place the responsibility for the increase. Now it is not pleasant to stand alone; to do so is to lose favor at home and abroad, but I cannot be honest with myself or the public without saying that, in the present state of the finances of the city, I think we have gone far enough, and indeed a little too far, in this direction, and I am willing to stand up and be counted among those, if any such there be, who think that the average number of pupils to the teacher throughout the city should be forty instead of thirty-four as at present.

In bills, that is in expenses for fuel, text books, repairs, etc., there was an increase this year of a little over \$3,000. Coal cost more by \$500, and repairs were greater by nearly \$2,500, facts which show that on items where economy is possible the usual economy was practised. The total expenses of the department were \$309,-245.84, as already stated. In 1906 they will inevitably be somewhat larger. We shall begin that year with eight more teachers than were in service Jan. 1, 1905, and if we open the Ennell street school house in 1906, as is now expected, we must expend about \$1,000 on

equipment and a year's stock of fuel. My estimate for the year is \$312,000, and the city council will be asked for an appropriation for that amount.

Compared with the amounts expended for instruction, those expended for text books and supplies are small, but they are receiving much attention elsewhere, and are always a matter of interest. In New York City \$2.20 per student is allowed in the high schools and \$1 per pupil in the elementary schools, on an enrollment taken in October, that month being chosen as the one in which the largest attendance is expected. This sum is smaller than that used in any other city of which I know, and principals and teachers there claim that it is inadequate. Some wealthy and liberal cities, indeed, use twice as much as does New York, and the average is, I think, fully \$1.50 for all grades taken together, though I have no very extended or reliable data on this point. In Lowell in 1905 we expended for text books, writing and drawing books, stationery, apparatus and supplies for laboratories, lumber, etc., for manual training, material for sewing classes, kindergarten supplies, etc., etc., to include every conceivable kind of supply furnished to schools, teachers, or pupils, \$15,133. Deducting \$1000 for supplies furnished to evening schools and dividing the remainder by the average number of pupils belonging through the year gives a quotient of \$1.35 as the expense per pupil. Attendance in October was 492 larger than the average for the year, and on that basis the average cost per pupil for supplies was \$1.29. Averages were, of course, higher in the high school than in any other, made so especially by laboratory and manual training supplies, which aggregated \$745, and commercial department supplies which amounted to \$881, and the expenses of the elementary schools were scarcely at all above the sum allowed in New York.

The following table gives the value of the text books and supplies furnished to each school in 1904 with the average per pupil based on the average number belonging:

In explanation of the large average at the high school it should be stated that the average there for text books alone was but \$1.78, and the high average of the table is due to the inclusion of \$1457 for bookkeeping books and blanks, stationery, etc., \$542 for printing and \$315 for laboratory and manual training supplies, some of which items must have been excluded in the New York computations to allow of getting along on an average as small as \$2.20 per pupil.

TEXT BOOKS AND SUPPLIES.

	AVER. NUMBER PUPILS BELONGING	AMT. EXPENDED FOR SUPPLIES	AVER. PER PUPIL
High School	890	\$3,906.36	\$4.39

Grammar Schools.

Bartlett	394	517.36	1.31
Butler	683	1,023.83	1.50
Edson	380	464.69	1.22
Green	436	753.07	1.73
Highland	668	1,054.44	1.58
Lincoln	390	527.83	1.35
Moody	378	622.94	1.65
Pawtucket	252	355.96	1.41
Training	274	588.50	2.15
Varnum	684	1,232.30	1.80
Totals	4539	\$7,140.92	\$1.57

Primary Schools.

Agawam	105	\$51.31	\$.49
Ames	130	65.94	.51
Bartlett	166	389.94	2.35
Billings	112	64.53	.58
Cabot	95	45.57	.48
Central	144	79.97	.56
Charles	153	91.49	.60
Cheever	56	22.63	.40
Cottage	115	54.07	.47
Carter	197	93.65	.48
Cross	125	94.16	.75
Dover	129	56.66	.44
Eliot	147	62.92	.43
Fayette	66	29.38	.45
Franklin	128	74.19	.58
High St.	57	31.45	.55
Howard	173	93.64	.54
Kirk	81	42.32	.52

	AVER. NUMBER PUPILS BELONGING	AMT. EXPENDED FOR SUPPLIES	AVER. PER PUPIL
Lakeview	232	127.72	.55
London	122	72.83	.60
Lyon	193	144.11	.75
Lincoln	80	14.17	.18
Morrill	93	28.50	.31
New Moody	249	94.55	.38
Oaklands	35	35.47	1.01
Pine	93	68.19	.73
Pond	118	23.67	.20
Powell	77	68.76	.89
Plain	201	55.90	.28
Tenth	162	57.22	.35
Training	178	136.96	.77
Weed	102	64.43	.63
West Sixth	145	62.25	.43
Worthen	147	103.38	.70
Totals	4,406	\$2,601.93	\$.59
Mixed Schools.			
Lexington Ave.	31	\$26.77	\$.86
Middlesex Village	99	108.53	1.10
Totals	130	\$135.30	\$1.04
Kindergartens	436	\$418.29	\$.96
Totals for all schools	10,401	\$14,202.80	\$1.36

Whether a large or small expenditure is a matter for commendation or not will doubtless be a question of opinion. Some will praise economy, while others will consider those teachers deserving of most honor who have asked and obtained for themselves and their children most lavish supplies. In fairness, too, to some schools which differ widely from the average it should be said that unusual orders for books and material one year are sometimes compensated for by smaller orders the next, so that a fair comparison could only be had by taking the average of several years. The Bartlett primary school, for instance, which seems to have outdone all the rest in 1904, has

been very modest in its orders since. The Lincoln primary, on the other hand, probably owes its exceedingly small expenditure to the receipt of some things like paper and pencils from the grammar school stock, but the school next to it in smallness of expenditure per pupil, Pond street, with only twenty cents apiece, has no such reason to offer, and it is evident that its principal, Miss Hill, meant to close her long term of service with a good record for economy as well as for all things else relating to her school. Certainly Pond street in its appearance or work never showed any signs of the lack of needed supplies, and this, too, has been true of many other schools, for in general those rooms with small expenditures have given to the observer no indication of niggardliness. On the contrary some of those schools whose expenditures were smallest in 1904 have always seemed to be among the best equipped in the city, and conditions in the room often depend much more upon the care exercised in the use of books and material than upon the amount received. These facts, perhaps, make it proper to say here in print what I have often said to teachers orally that the property of the city is a sacred trust for both teacher and pupil, and that care and economy in its use is a duty of the first importance. One has, possibly, the right to be lavish or careless in the use of that which is his own; he has no right to be wasteful in the use of that which belongs to another and especially that which belongs to the city. If this lesson is taught as it should be taught during the years of a child's school life some dollars will be saved, probably, but this is the least of the reasons for doing it. The greater and all sufficient reason is the impress it must make upon the habits and character of the pupil. Graft and waste in the city's business will cease when a generation of properly trained and rightly influenced boys and girls shall have become men and women; upon teachers, therefore, rests a responsibility for consequences of this kind which cannot possibly be overestimated.

It is my hope that tables of expenditure for text books and supplies, similar to the one given this year, may be continued in successive annual reports for some years to come. Other items like the per capita cost of instruction, on which there is a much wider difference than is generally supposed, the cost of water, gas, electricity, etc., would, I think, be matters of interest, and might tend to economy.

SCHOOL HOUSES.

No new school house has been erected in 1905; but one has been begun, another has been made usable by repairs, a third has been se-

cured by purchase, and land for a fourth has been paid for, a pretty good record for one year.

At Ennell street, plans for a ten room building were accepted in January, and work on the house has progressed far enough to show its outline, though for a roof we must wait until next year. Presumably the house will be finished in 1906. In the meantime the Lakeview avenue school, which the Ennell street building is expected to relieve, has increased in members so as to require the services of two additional teachers. Its little annex building of two rooms now has in it 132 pupils with four teachers. The whole school has 307 pupils with eight teachers, and if all go to Ennell street when the building there is finished they will leave small room for grammar teachers and pupils from the Varnum.

The crowded condition of the Pawtucket school house, to which reference was made last year, has been relieved, temporarily at least, by the removal of the kindergarten to the old primary school house on Mammoth Road. This house was used as a library building for a score or more years after the city ceased to use it for school purposes, but more recently it had not been used for any purpose, and had fallen into a sad state of dilapidation. Early in the year the school department asked the city council to put it in condition to use, and later took the matter in hand itself and had the building completely renovated and refitted with modern improvements at a cost of \$1200. It is now in admirable condition, and makes an extremely satisfactory abiding place for the little people for whom it has been fitted. In its yard room, shade, and opportunities for gardening it has no equal in the city, and those interested in it promise that its capabilities in this respect shall be developed to their utmost next year, thus giving opportunity for a most interesting experiment in children's work in school gardening.

In the Lincoln school house heat has been introduced into a room which had previously been partitioned off at the end of one of the wide corridors on the second floor, and ventilation has been provided so that quite comfortable quarters have at last been obtained for the kindergarten, a result which is giving great satisfaction to all concerned.

At Lyon street the surplus pupils were accommodated, if that is a proper word to use for such bad quarters, in a polling booth for the two months before the summer vacation, and later a nearby dwelling house was purchased at a cost of \$5200 and the arrangement of its rooms so changed as to provide one very fair school room,—all that is needed at present.

At the Highland school not only is the four room temporary building in the yard filled with pupils but another class and teacher have been returned to the assembly hall. Worse still the master thinks that he will be forced to open still another room, also in the assembly hall, in September next. The need of further increase of accommodations is obvious.

At the Butler, yard room is still lacking, as it has been for the last five years, and two classes sitting and reciting in different corners of the assembly hall indicate sufficiently the present need, and the inevitable necessity for better and ampler accommodations in the immediate future.

SCHOOLS AND TEACHERS.

The average attendance of pupils has increased 165 during the year, and five new rooms have been opened. At the same time two have been closed, making a net gain of three. The rooms opened have been at the High School, the Highland, Sycamore street, Lyon street and High street. The opening of the room at Lyon street involved no increase of teaching force, the new room being taken by a teacher already employed as an assistant. The extra teacher employed at London street last year has been withdrawn, the number of pupils there having fallen off a little, and two extra teachers have been added at Lakeview, where numbers have largely increased. The Fayette street school building of two rooms has been closed, and its pupils have been sent to High street. At the training school two more regular teachers are employed, and the practice class has been increased from nine to twelve. The total increase of teaching force in the year, therefore, has been eight, of whom five are regularly certified teachers and three are student teachers at the Training School, and the only places where more teachers are employed because of increase of numbers are the High School, Sycamore street and Lakeview avenue.

Changes in the roll of teachers have been as follows:

Died.

	Term of Service
Elizabeth T. Moore of the Varnum School	4 years

Resigned.

Alice J. Chase of the High School	28 years
Anne Marjorie Day of the High School	6 "
Helen Buttrick of the High School	6 "
Elsie Ryder of the High School	3 "
Carrie E. Erskine of the Bartlett School	12 "
Mary B. McGovern of the Weed Street School	19 "

Bertha McCue of the Edson School	5 years
Elizabeth A. Page of the Worthen Street School	4 "
Mary A. Farnham of the Plain Street School	18 "
Marietta Hill of the Pond Street School	35 "
Elizabeth F. Blandin of the Varnum School	9 "
Alice M. Magoon of the Varnum	7 "

Transferred.

Mary E. Meehan from Lakeview Avenue to Worthen Street.
 Elizabeth B. Dame from Lyon Street to Sycamore Street.
 Maude M. Hardy from New Moody Street to the Pawtucket School.

Elected.

Ethel M. Everett, to the High School.
 Elizabeth H. Murphy, to the High School.
 Alice Richardson, to the High School.
 H. Fordyce Coburn, to the High School.
 Mary E. Crowley, to the Weed Street School.
 Gertrude E. Dane, to the Middlesex Village School.
 Helen A. Dow, to the Highland School.
 Edith Farrington, to the Ames Street School.
 Martina F. McMahon, to the Moody School.
 E. Laura Moore, to the Cottage Street School.
 Catherine G. O'Sullivan, to the Highland School.
 Loretta L. Ward, to the Green School.
 Mabel C. Walsh, to the New Moody Street School.
 Caroline H. McGarvey, to the Bartlett School.

In the death of Miss Moore, the city lost a young, energetic and progressive teacher, and a lady whose womanliness and unaffected spirit of good fellowship had endeared her to all with whom she had been associated.

Of those who resigned, Mrs. Chase had been out of service for some years; Miss Buttrick was withdrawn by the illness and death of her father; Misses Day, Ryder, Erskine, Blandin and Magoon retired to accept better positions elsewhere, the last two named in the Philippine Islands; Miss Hill, though still in good health and spirits,

resigned to enjoy a well earned rest, and all the others married before they resigned. All were doing such work that they would have been retained if they had chosen to remain, and the majority were very superior teachers whose places it will be difficult to fill with those who will do equally well.

HIGH SCHOOL.

The number of pupils to enter the High School last September was 393, a large increase on any previous year, and the class to graduate next June bids fair to be nearly or quite 200, also a record breaking number.

None of the courses of study in the High School are easy, nor is it intended that any should be so. On the contrary all are planned to exact faithful and persistent effort. They are not, of course, too difficult for the average student, and should be approached with hope and a full expectation of success by all who are willing to do faithful work. It should be understood, however, by students and parents both, that the tasks of the High School are planned and arranged with the clear purpose that they shall occupy the whole of the student's time, with the exception of a small period each day for physical exercise and recreation. To insure success, school must be the student's business, and his only business.

These statements are suggested by the fact that a large proportion of the boys in the High School, and in the opinion of the headmaster a rapidly increasing proportion, are doing much outside work. In the case of some this work is necessary to the support of the student, and is a matter of commendation rather than blame; in other cases the work is not difficult nor long continued and may be beneficial rather than harmful, but in a majority of cases it takes so much time as to encroach most injuriously upon the hours which are needed for study, and sometimes absorbs the interest so completely as to make success in school an entirely secondary matter. It is needless to say that in such cases failure is almost certain, and the only question is as to the length of time for which it may be postponed. Now if a boy wishes to leave school altogether for the purpose of securing employment, and if his parents approve, it is his privilege to do so, but to remain a nominal student while his interests and his work are elsewhere is to court failure in school and to lose time from other and more gainful employment. This, certainly, is not the part of wisdom, and students who are trying to do two things and failing

in both would do well to make an early choice of one and to do that one thing well. Nor, for the information of parents, can it be repeated too often that afternoon and evening study is absolutely essential to success in the High School. And if afternoons and evenings are given to anything else, either to social pleasures or to work for wages, and failure follows, certainly the High School curriculum should not be blamed.

In the earliest years of the school there were no graduations, students retiring from time to time singly or in small groups as they became fitted for college, or unable to stay longer. There could be no record of those who completed the course, for there was no set course to complete, nor of graduates since there were no formal graduations. It is, therefore, well nigh impossible to tell the names or the number of those who remained in the school until fitted to enter college, or until they had mastered the most advanced branches taught in the school fifty or sixty years ago. Graduations and the publication of the names of the graduates in the annual reports of the School Committee, which began in 1859, effected a very great improvement in this respect, and has been a matter of much importance to many citizens. The custom of publishing graduation programs and names of graduates has fallen into disuse in our largest cities, but such things seem to me to be for us a matter of much importance and value. I am glad, therefore, to follow the custom of many years and give place to the program of the graduation exercises, which were in the Lowell Opera House, June 26, and to the names of the graduates, the Carney Medal scholars and Honorable Mention students:—

ORDER OF EXERCISES.

- | | | | |
|---|-----------|---------------------|-----------|
| 1 | SELECTION | Lohengrin | Wagner |
| | | American Orchestra | |
| 2 | MARCH | The Diplomat | Sousa |
| | | American Orchestra | |
| 3 | CHORUS | The Heavens Resound | Beethoven |

4 SALUTATORY Rainbow Philosophy

Ethel Ambler Waring

5 MALE QUARTET In a Year

Handweg

First Tenor: Mr. Buckle, '05

Second Tenor: Mr. Whipple, '05

First Bass: Mr. Shaw, '05

Second Bass: Mr. Keables, '05

6 REMARKS AND INTRODUCTION OF SPEAKER

Mr. William W. Duncan, President of School Board

7 ADDRESS

Professor George E. Vincent of Chicago University

8 SEMI CHORUS

a Dan Cupid and Dame Fortune

Reinecke

b A Vintage Song

Mendelssohn

First Tenor: Messrs Buckle, '05, Whipple, '05,
Lew, '05, Dennison, '08.Second Tenor: Messrs Nickerson, '05, Clark, '05,
Leith, '06, Sanders, '07.First Bass: Messrs Parker, '05, Haggerty, '05,
McDaniels, '05, Gray, '07.Second Bass: Messrs Shaw, '05, Hatch, '06,
Campbell, '06, Raymond, '08.

9 PRESENTATION OF BAS-RELIEF

By Class of 1905

Sidney Beaumont Whipple, Class President 1905

ACCEPTANCE FOR THE SCHOOL

Mr. William F. Regan, of the High School Committee

10 SEMI CHORUS Lullaby

Webster

Soprano: Misses Richardson, '06, Sanborn, '05,
Small, '06, Eastman, '05.Alto: Misses Libby, '07, Gallagher, '06, Land-
ers, '06.

Tenor: Messrs Buckle, '05, Whipple, '05.

Bass: Messrs Shaw, '05, Keables, '05.

Violin Obligato: Mr. Paul A. Sullivan, '06.

- 11 VALEDICTORY The Spirit of Exploration, the American Spirit
John Cushing Varney
- 12 CHORUS The Pigtail Bullard
- 13 PRESENTATION OF CARNEY MEDALS
Honorable mention of those who have attained a scholarship
rank of 90 per cent.
Mr. Arthur K. Whitcomb, Superintendent of Schools
- 14 CHORUS Song of the Vikings Faning
- 15 PRESENTATION OF DIPLOMAS
His Honor, the Mayor, James B. Casey
- 16 SINGING OF THE CLASS ODE Music by Corinne Henry Emerson
Words by Mary Elizabeth Cove
- 17 FINALE Faskeltanz No. 1 Meyerbeer
American Orchestra

GRADUATES.

FIVE YEARS' COURSE.

Arthur Morse Stevens

FOUR YEARS' COURSE.

Percy Maynard Bramhall
 George Winthrop Bowers
 Winthrop Parkhurst Buttrick
 Wilbur Irving Bull
 Malcolm Dwight Cameron
 Horace Barker Chadbourne
 George Walter Clark
 Clarence Elliott Coburn
 Joseph Leo Cunningham
 Osmond Francis Field
 Victor Gelineau
 John Henry Hession
 Frank Russell Hoyt
 Austin Dow Keables
 James Francis Kely
 Russell Stearns Langdell
 Gerard Nelson Lew
 Everett Robinson Merrill
 George Everett Miers
 Walter Ross McDaniel
 Stanley Whitfield Nichols
 Charles Francis O'Neill
 John Henry O'Neill
 Herbert Lang Parker
 Isabel Fairbank
 Gertrude Louise Farmer
 Ruth Isannah Flint
 Alice Josephine Flynn
 Ethel Lucia Gordon
 Edith Gertrude Gordon
 Laura Frances Greene
 Alice Kathleen Guyton
 Helen Margaret Guyton
 Fannie Goodwin Hobbs
 Bertha Electa Holmes
 Blanche Bennett Hunking
 Pauline Cutler Jefferson
 Cora Ethel Jones

John Pauly
 Wesley Chanley Roche
 Herbert Elbridge Ruggles
 James John Scott
 *Joseph White Stiles, Jr.
 Abraham Strauss
 Harold Butler Sweatt
 John Cushing Varney
 Schuyler Richard Waller
 Sidney Beaumont Whipple
 Henry Hood Wilder
 Lillian Elizabeth Alister
 Margaret Louise Breen
 Elinor Stark Campbell
 Mildred Helena Chapman
 Ethel Henrene Church
 Laura Andrews Coburn
 Elizabeth Grace Common
 Ivah Maude Connell
 Mary Elizabeth Cove
 Gertrude Madge Davis
 Kathleen Mary Dundon
 Katharine Eastman
 Corinne Henry Emerson
 Mae Estelle McNamee
 Olive Josephine Palm
 Florence Ada Parr
 Ruth Kilburn Pease
 Ingrid Israella Pihl
 Lena Belle Riggs
 Anna Agnes Riley
 Ethel Mathilda Rivet
 Edith Tasker Sanborn
 Elizabeth Vesta Shaddock
 Marion Adelaide Shattuck
 Wilhelmina May Somers
 Elizabeth Spalding
 Katherine Isabelle Sutherland

* Deceased

Edith Marie Lennon
 Alice Maude Littlefield
 Mary Etta Louise Martin
 Grace Anna Mansfield
 Elizabeth Vera Mullaney

Katherine Gertrude Tighe
 Alice Cecilia Tobin
 Ethel Ambler Waring
 Alice Gertrude Whitman
 Julia Adelaide Willett

THREE YEARS' COURSE.

Roy Joseph Bennett
 Chester Arthur Blake
 George Edmund Buckle
 William Leo Constantineau
 Everett Bartlett Emerson
 James Edward Farley
 William Thomas Farley
 Patrick Francis Fitzgerald
 Frank Gookin
 Joseph Haggerty
 Sumner Stevens Holt
 Ralph Kimball Howland
 Frank Leo Molony
 John Fairfield Shaw
 Arthur Frederick Tiffany
 Thomas James Tighe
 Ethel Florence Brown
 Frances Leslie Clark
 Alice Myrtle Coburn
 Edith Maud Coburn
 Ila May Connell
 Margaret Frances Considine
 Mabelle Agnes Cragin
 Mabel Annie Dix
 Alice Adeline Dowling
 Lillie Jane Dunn
 Maybelle Agnes Dwyer
 Lillian Mary Edgecomb
 Lila Abbott Field
 Edith May Hutton
 Florence Jasper
 Hazel Melissa Judkins
 Marie Diana Lavoie

Fred Mozley
 Edward Anthony Murphy
 Francis Joseph Murphy
 Elias John McQuade
 Albert Munroe Nickerson
 Christopher Charles Nugent
 James Robert Nutter
 James Beard Palm
 Clarence Arthur Parker
 Harry Lee Pilkington
 Edward Francis Quinlan
 James Edward Richards
 Morris Schwartz
 Evelina Anne Leith
 Mildred Etta Locke
 Mollie Gertrude Lynch
 Margaret Gertrude Maguire
 Anna Dorothy Marley
 Margaret Elizabeth Molony
 Florence Agatha McHugh
 Mary Louise O'Connell
 Anna Clare O'Donoghue
 Katherine Elizabeth O'Donoghue
 Eva May Richardson
 Ruby Abigail Robson
 Agnes Gertrude Roche
 Lillian Russell
 Ola Mattie Sargent
 Carolyn Katherine Tyrrell
 Ethel Rena Waller
 Anna Rose Webster
 Anna Gertrude Whelan

CARNEY MEDAL SCHOLARS

John Cushing Varney
 Fred Mozley
 Abraham Strauss

Ethel Ambler Waring
 Mary Etta Louise Martin
 Mary Elizabeth Cove

HONORABLE MENTION

Edith Gertrude Greene
Ruth Kilburn Pease
Cora Ethel Jones
Ruby Abigail Robson
Mildred Helena Chapman
Alice Cecilia Tobin

Laura Andrews Coburn
Marie Diana Lavoie
Olive Josephine Palm
Bertha Electa Holmes
Gertrude Louise Farmer

ELEMENTARY SCHOOLS.

Pupils in elementary schools in December number 9476, divided by grades as follows:—

1	2	3	4	5	6	7	8	9	Tot.
2073	1370	1116	1105	1034	864	806	608	500	9476

This number is a gain of 122 over last year, and the increase in the number of teachers, except in the Training School, has been three, a number quite closely commensurate with the gain in pupils.

Changes in the course of study have not been extensive. The use of the smaller text book in geography has been extended to the sixth grade, and the larger book is now begun in the seventh grade and finished in the first half of the ninth. Scudder's Short History as a book for reading in the sixth grade has been replaced by Tappan's Our Country's Story, which is to be used as a text book and not merely as a reader. Guerber's Story of the English, assigned hitherto to the seventh grade, has been transferred to the eighth, and the study of English history may be taken up, and the history of the United States omitted, in the last named grade, at the option of teachers and the master of the school. So far three schools, the Moody, Bartlett and Pawtucket, have chosen the English history, the Guerber text book being supplemented by Tappan's or Stone's, if desired. Nature study by observation was greatly stimulated by a course of lectures through the first half of the year by Prof. C. M. Weed of the Normal school, and some really excellent work was done in many schools.

TRAINING SCHOOL.

Nine young ladies completed the examinations and tests prescribed by the School Committee, the last being a year of actual teaching in the Training School, and were granted diplomas and certificates of qualification as teachers last June. Of the nine, three were graduates of colleges, two of the State Normal School at Framingham, and four of the Normal School at Lowell. Of these graduates one is extending her education further at the Boston Normal Art School, and the rest have had employment, more or less irregular

it must be confessed, as temporary and substitute teachers in Lowell ever since their graduation. A class of twelve more young ladies, selected by an examination held in June, entered the school in September. The names of the graduates will be found in the appendix, following the names of elected teachers.

SUPPLEMENTARY READING.

Twenty years ago the schools of Lowell were all supplied with a set of authorized readers, and with very few other books for reading. Promotions depended on proficiency in reading orally from a single book. On this one book intensive study frequently produced excellent results, as was to be expected. The reading was almost always fluent, for pupils often knew large parts of the book by heart, and as an illustration of the results sometimes reached in spelling, which, in the lower grades at least, was always learned from the same book. I remember well one third grade teacher who always challenged me when I examined her class in June to find one word in her "authorized" reader which her class could not spell. In short, the one book system, while deplorably narrow and apparently lacking in interest, necessitated an amount of re-reading and drill which sometimes produced results which teachers of the present day might well emulate.

The need of more books, however, seemed to be great, and fifteen years ago another book was added for use in each grade. The next year another was put upon the list, none being dropped, and this custom has been continued pretty regularly to the present time. Some years more than one has been added, until there are now far more books available for use in every grade than there is time to read. This change has been made, it should be noted, with very slight expense to the city. The pupil must have something to read in every hour devoted to this exercise, and the wear is no greater on two books used half of the time than on one book used all the time. Usually, too, a worn out book, which must be replaced anyway, can be succeeded by one by a different author at a cost less than that of the one already in use, an exchange rate being allowed on the new book.

About the time when the introduction of much supplementary

reading began there arose from many so-called educators a great outcry against most of the books in use, because of their diversified contents. The reading of "complete" books, stories and poems was demanded with an emphasis somewhat amusing, at least in the retrospect, and the adjective "scrappy" applied to the ordinary school reader was the most contemptuous epithet that could be used. That this was a half truth is still evident, but the fact that stories or poems only a few lines in length are sometimes just as "complete" as are others which would fill several volumes was ignored or forgotten. However, the craze has passed, and while we still have, and ever hope to have, many complete stories, essays, poems or books, we have had in the past five years a deluge of the old fashioned diversified readers such as has never been seen before. And of both kinds Lowell offers more than teachers can possibly use.

In courses of study which are in use in other cities I frequently note the direction: "Read in this grade the authorized reader, and the ten, or twelve, or fifteen, supplementary readers which will be supplied." I have, indeed, had one teacher in Lowell who used sixteen, and called for another, but she is the rare exception, and in experience I have found that very few teachers care for, or can profitably use, any such numbers as is advised elsewhere. In Lowell few teachers have more than seven reading books, and few less than four. It is, however, the policy of the School Committee to furnish just as many, on request, as can actually be read.

In this connection I wish to note two things, one in the interest of economy and honorable dealing, and the other in the line of effective teaching. On the first point, while I wish teachers to have just as much reading matter as they can profitably use, I object decidedly to having books still in good condition returned to the supply room or put upon a book shelf at the school in order that a place may be made for new books. Whether the new book has prettier pictures than the old or not I neither know nor care. If a book, authorized by the School Committee and selected by a teacher, is in hand and in good condition, no one has a right to discard it, even though another more attractive can be found. Teachers are, I think, in honor bound to first use what they have, and then, and only then, order more.

Second, in the interest of the best reading, I think there should be, alongside the abundant sight reading of which I approve, a return, a part of the time, to the old fashioned intensive drill on one book, or one selection. I should like again to hear a class read a selection which had been often read before; a selection with which the class is thoroughly familiar, one in which every word is known,

and which can be read with the ease and expression which come only from thorough drill. In my opinion we have wandered too far from this method of teaching and of learning, and I believe we shall benefit our pupils if we make an occasional return to it.

EVENING SCHOOLS.

The evening schools opened in October with an attendance slightly less than that of 1904, and the falling off since has been greater than usual. The enrollment of the High School in the first week was 676 as against 764 in 1904. Of those who began, too, a considerable number divided their time between school and roller skating, with a result that they soon fell behind their mates in their classes in school, lost interest, and ceased to attend. Many individual cases of this kind are known to the teachers, and those best qualified to judge conclude that the pleasures of the skating rink depleted the school by at least one hundred students, and possibly by considerably more than this number. The same cause doubtless affected the volunteer attendance at the elementary schools somewhat, but could not have influenced the compulsory attendance, (that of minors who cannot read and write in English) but here, too, there was a considerable reduction of numbers in some schools, though with a corresponding increase in others. The schools with reduced attendance were the Varnum, Aiken avenue, Bartlett, Franklin and Green, all schools in which almost all pupils are French. That less children and youth were compelled to attend these schools on account of inability to read and write is a credit to the part of the city in which they are located, and an encouragement to all who care for the welfare and honor of Lowell. The attendance at the Greek schools, the Mann and Worthen, was about as usual, but that at the schools in the south and east of the city, those attended largely by Poles and Portuguese, showed a considerable increase.

Since 1898 the privilege of legal employment for minors has depended wholly upon age, and not at all upon education. The age limit of compulsory education has been fourteen years, and boys and girls have been able to leave school and go to work at that age, whether they knew anything of letters or not. Some labor unions have desired to raise this age limit to sixteen years, and a bill to that effect has been introduced into the legislature each winter for several years. Noting this fact the Legislature Committee of the Consumers' League pressed a bill last winter, in the interests both

of education and of a lessened amount of child labor, to raise the age limit of school attendance, and of legal employment, to sixteen years, not for all children indeed, but for those who cannot read and write in English. This bill became a law, to take effect January 1, 1906. Its effect on that day will be to make illegal the employment of all children under sixteen years of age who cannot read and write in English. Others can, of course, still be employed at fourteen as before, and those over sixteen can remain employed as before on the condition that they attend an evening school.

In anticipation of the effects of this law, January 1, every effort has been made through the public press, through teachers and pupils, and through notices to employers, to have it effect harmfully just as few as possible. Children have been advised and encouraged to work hard in evening schools and elsewhere to learn English so as to be able to obtain or continue legal employment, and many have done so with the happiest results. Scores certainly, and possibly hundreds, have learned to read and write English in the last few months, but others who have tried faithfully have found the time too short, while the majority, indifferent to all efforts in their behalf, have dodged education in the present with the same skill they have shown in that line in all their past, a course in which they seem not infrequently to have had the sympathetic co-operation of their parents.

A careful census of children likely to be affected by the law was made through the evening schools in November, and about 300 names were obtained. From this record it was concluded that it would be necessary to open several special day school rooms for them at the beginning of the new year, but as the old year closes this does not seem as likely. Desiring to avoid the inconvenience likely to come from discharging so much help at once, the mills began to let their illiterate employes go one at a time as far back as November, and through December the weeding out process has been continued so effectively that it would seem that very few can be left at the beginning of January. Of those thus sent out, or threatened with discharge unless they can show an exemption certificate, some have demonstrated their ability to read, and have, therefore, properly been retained; others have dropped in here and there at regular day schools; others, and a much larger number, have left the city for places where laws are less restrictive; still others who are nearly sixteen will loaf, and dodge school of any kind if they can, until the desired age limit is reached at which they can return to work; so that altogether the number to be provided for in day schools cannot possibly be large. Such pupils cannot, of course, sit in the small seats

of our primary schools, nor can they do the work of the grammar schools where the seats are better adapted to their size. It would, indeed, be manifestly improper to place them with very small children. The teaching they require would be different, and I think all will agree that special ungraded rooms should be opened for them in which they should be taught mainly, and that as fast as possible, just those things which they need to know for congenial and successful living as a part of an English speaking nation, which is, as it happens, just what they need to know to enable them to pass an examination and return to work, as they wish to do.

The law requires the reading and writing of simple sentences in English, and some differences of opinion have been formed as to how simple such sentences may be. Schoolmen in different cities, however, seem to be fairly well agreed that reading should be intelligent as well intelligible in a book of about third or fourth reader grade, and that the writing should be of dictated sentences of a grade of difficulty about equal to those in the book used as a reader. In Connecticut the standard set by law, or by the State Superintendent, is a proficiency about the same as that of a fifth grade in an average day school, and it is quite likely that some similar standard will be set by legislation in this state this winter.

The state board of education claims no credit for originating or securing the passage of this law, but of its good results in reducing child labor and in largely extending the ability to read and write in English there seems to be no doubt. Schools which have taught English ineffectively will now have stronger inducements than ever before to teach it effectively, and those children who would come to us from abroad knowing nothing of English letters will now learn them, or stay away.

Upon the evening schools, however, the new law has already had a very noticeable result, and one which would not naturally have been expected. One would suppose that minors discharged from employment for lack of education, and needing only to learn to read and write to be able to get back to work would flock to the evening schools in crowds, or would at least remain in them if already in attendance. Such, however, has not been the case at all. On the contrary nine out of ten of those sent out of the mills have as promptly taken themselves out of the evening schools, and the decrease in attendance in the evening schools in December has been more rapid than has been known for many years.

Statistics of the last completed term, that of 1904-5, are given herewith, with names of the graduates of the High School.

SUMMARY OF ATTENDANCE.

For Term of 1904 - 1905.

SCHOOLS	Number of Rooms in each School	Teachers at beginning of Term	Teachers at close of Term	WHOLE NUMBER ON TIME BOOKS			AVERAGE NUMBER BELONGING			AVERAGE ATTENDANCE			Per cent. of Attendance
				Males	Females	Total	Males	Females	Total	Males	Females	Total	
High.....		24	23	572	475	1047	275	246	521	242	210	452	80
Aiken Ave...	2	7	7	85	72	157	51	59	110	44	54	98	89
Bartlett (French)	5	10	10		151	151		121	121		118	118	90
Bartlett..... (Greek)	3	4	4		106	106		82	82		75	75	91
Butler.....	6	9	7	170	58	228	74	34	108	60	32	92	85
Colburn.....	5	9	5	130	90	220	59	54	113	51	50	101	89
Cheever St...	2	7	7		124	124		103	103		96	96	93
Edson.....	6	15	12	113	126	239	90	95	185	76	80	156	84
Franklin.....	5	9	7	132	80	212	71	57	128	59	48	107	84
Green.....	9	19	15	487		487	271		271	238		238	88
Hebrew	1	1	1	29		29	14		14	9		9	65
Mann	13	25	20	490		490	347		347	325		325	90
Old Moody..	4	7	6	92	99	191	72	49	121	58	34	92	76
Pawtucket...	2	3	2	37	11	48	19	6	25	18	4	22	88
Varnum.....	5	6	6	109	80	189	49	47	96	41	44	85	88
Worthen St.	3	7	5	152		152	94		94	84		84	90
Totals.....		162	137	2598	1427	4070	1486	953	2439	1305	845	2150	85

CLASS OF 1905.

Class Color—Violet

Class Motto—"Constantia et Virtute"

ERNEST P. PARSONS, President

THOMAS S. CONWAY, Vice President

MARY C. E. O'REILLY, Secretary

MAUD E. COCHRAN, Treasurer

GRADUATES.

REGULAR COURSE, THREE YEARS.

Ballinger, Frederick Wilfred	Waring, David
Barry, John Joseph	Waring, Ernest
Bolduc, Alphonse	Waugh, William James Joseph
Breckenridge, Robert	Wholey, John Ambrose
Burke, William Henry	
Cleary, Albert Leo	Andreoli, Anna Maria
Conway, Thomas Sidney	Bradley, Anna Isabelle
Cotter, Horace Leander	Callaghan, Ella Marie
Drolet, Henry Edward	Cochran, Maud Eliza
Fielding, Benjamin Orrell	Corey, Katharine Frances
Hall, Jr., William	Craig, Winifred Marie
Hannon, Francis Thomas	Dillon, Mary Teresa
Hartley, Francis Stephen	Dolan, Loretta Agnes
Healey, Henry William	Evans, Caroline Anna
Kelley, Duncan	Flory, Julia Eugenia Viola
Kelley, James Charles	Gareau, Marie Anne
L'Heureux, Harvey Joseph	Gill, Margaret Veronica
Major, Harry Weston	Hennessy, Josephine Agnes
Mathison, John Arthur	Jalbert, Marie Eva
Maxwell, William Anthony	Lawless, Anna Belle
Mehan, Albert Francis	Logue, Elizabeth Frances
Montmarquet Arthur Oscar	Madden, Elizabeth Bridget
Murphy, Cornelius Dominic	Masterson, Mary Gertrude
McDermott, John Thomas	Minahan, Katherine Agnes
McDonough, John Leo	Molony, Mary Madeline
McGarry, John Aloysius	Moran, Abigail Frances
McNiff, Michael Hugh	Murray, Margaret
Noonan, Peter Francis	McCartin, Mary Elizabeth
North, Gilmore Edward	McCusker, Mary Frances
Parsons, Ernest Perry	McLellan, Nellie
Rivard, Alfred Achille	McNamara, Elizabeth Veronica
Rogers, John Thomas	Nolan, Anna Josephine
Rousseau, Ferdinand	O'Keefe, Susie Lauretta
Roper, Albert Henry	O'Neil, Mary Rose
Salmon, John Francis	Powers, Mayella Veracunda
Shea, Edward Francis	Sexton, Mary Louise
Shea, John Henry	Shea, Marietta Veronica
Verner, William Simoneau	Stapleton, Mary Teresa

STENOGRAPHY CLASS.

Holstein, Arthur	Maden, Frank
Vansteenburgh, Joseph Leonard	O'Reilly, Mary Catherine
Hacker, Carrie Louise	Euphemia
Hall, Ethel Evangeline	Sabourin, Anna
Kendrick, Mabel Helen	Seeton, Margaret Louise
Madigan, Honora Hildergarde	Soper, Hattie Lucy
MacLaughlan, Margaretta	Hebert, Florence Margretta
Joséphine	

EVENING DRAWING SCHOOLS.

Two teachers who were among those who had been longest connected with the schools have resigned this year, Mr. F. W. Farnham from the machine drawing class and Miss Ella C. Greene from the advanced free hand or art class. Both were strong teachers who have given quality and standing to the school, and both are greatly missed. The modeling class has been reduced by exclusion to include only the few who are deeply interested in it for practical purposes, and the free hand classes have been so combined as to permit a considerable reduction in the cost of instruction.

An exhibit of work at the close of the last term drew an audience to fairly well fill the largest double room, and it is not too much to say that it surprised all who saw it by its variety and excellence.

Statistics of the last completed term, that of 1904-5 are as follows:—

CLASSES	Teachers at Opening of Term	Teachers at Close of Term	WHOLE NUMBER ON TIME BOOKS			AVERAGE NUMBER BELONGING			AVERAGE ATTENDANCE			Per Cent. of Attendance
			Males	Females	Total	Males	Females	Total	Males	Females	Total	
Machine.....	11	9	157		157	128		128	95		95	74
Architectur'l	4	4	54		54	37		37	29		29	78
Free Hand...	3	3	61	97	158	44	66	110	34	54	88	79
Modeling.....	4	4	62	56	118	44	36	80	35	25	60	75
Totals	22	20	334	153	487	253	102	355	193	79	272	76

LABOR LAWS.

Changes in labor laws as related to education were discussed in connection with evening schools. The only other change made by the legislature of 1904-5 was in regard to the kind of evidence of age to be demanded as a prerequisite to the giving of work certificates. Heretofore the records of the school census were allowable as evidence, but this was cut out of the new law, which went into effect July 1, 1905. The amended law is as follows:—

Revised Laws, Chap. 106, Sec. 31.—“An age or schooling certificate shall not be approved unless satisfactory evidence is furnished by a certificate of birth or baptism of such minor, or by the register of birth of such minor with a city or town clerk, that such minor is of the age stated in the certificate, except that other evidence, under oath, may be accepted in case the superintendent or person authorized by the School Committee decides that neither the certificate of birth or baptism, nor the register of birth is available for the purpose.”

In our practice the records of the school census had never been of much use, so that the change was not of great consequence to us. Records of birth are strenuously insisted upon, but even when we have them from countries like Arabia, Turkey, Austria, and the like we are often still in doubt. The ease with which anybody can get a certificate from anywhere makes us suspicious, yet in general, unless the child is manifestly under age, we do not feel that we have a right to go behind the records.

As a side light on the matter of age, in the case of immigrants, we have been making much use of late of the records of the commissioners of immigration at Long Wharf, Boston, and Ellis Island, New York. These records are furnished promptly, without cost, for the asking. In the case of immigrants who come with a passport such records are undoubtedly of great value. The government of the home country looks very carefully after birth records, especially of boys, having in mind the compulsory army service which is to come later, and when it has to provide passports it copies these records. Unfortunately Greece, the country from which immigrants are now coming to Lowell in such large numbers, has no treaty with us by which it is placed under obligation to provide passports, and Greek minors come to us with no better record of age than is furnished by the ship's manifest. If, therefore, a false age was given and accepted when the minor left his home the ship's manifest might hinder rather than help our search for the truth. When, however, a reference to the ship's papers shows that a boy has increased three years in age while on the way from Boston to Lowell by express

train we find it of value to compare the father's oath certified statement with the commissioner's records. Just as I am writing, a girl, claiming to be sixteen (they are all sixteen since the new law has been announced) admits that she would not be helped by the records of the immigration office since, to obtain cheaper passage, she was there recorded as being but ten. In her case a birth certificate must be waited for, but I think the chances are more than even that when it arrives it will show that she is sixteen, and a little more to allow a safe margin.

Beset with such difficulties, and making no claim to infallibility, it is probable that we have sometimes been deceived. Indeed we have detected our own error in a few cases, and made prompt correction, but nobody else has ever yet detected us in a single mistake. We promise prompt action, not only in the withdrawal of certificates but in the punishment of those who have imposed upon us by fraud, if possible, in every case which may be reported to us by any one, and we suggest to critics that instead of asserting that "there are hundreds" at work under age they report to us one, and give us a chance to act "as to justice appertains."

The report of the Truant Officers follows my own, and to it reference should be had for details. As certificates can be given in 1906 to those minors only who can read and write a reduction in number is possible, a result at which all should rejoice.

In conclusion I desire again to express my hearty thanks to the School Committee for continued kindness, co-operation and support, and to all those who are associated with me in the work of the school department for efficient work and kindly co-operation.

ARTHUR K. WHITCOMB,

Superintendent of Schools.

REPORT OF THE TRUANT COMMISSIONERS FOR THE YEAR 1905.

	Absentees	Truants	Working without certificates	Wandering about the streets	New scholars	Juvenile offenders	Violating the rules of school	Total number cases investigated	Arrested	Sent to the Middlesex County Truant School	Placed on probation	Prosecution of parents	Visited second time	Visited third time	Working certificates issued—(14 to 16 yrs of age)	Working certificates approved—over 16 years of age
January.....	230	27	0	31	2	5	0	257	4	2	2	0	20	10	165	26
February.....	213	47	0	21	0	12	0	260	3	3	0	0	25	18	72	23
March.....	207	43	0	23	3	12	0	250	9	7	2	0	20	8	169	20
April.....	207	63	0	19	3	11	0	270	3	1	2	0	30	15	109	25
May.....	295	83	0	50	2	12	0	368	16	13	3	0	25	15	155	25
June.....	145	55	0	37	1	4	0	200	3	3	0	0	22	11	175	28
July.....															239	47
August.....															221	24
September.....	129	10	0	0	0	3	0	139	1	1	0	0	15	8	106	12
October.....	120	52	0	24	0	10	0	172	5	4	1	0	18	4	118	10
November.....	122	20	0	25	0	9	0	142	3	3	0	0	15	0	50	8
December.....	328	47	0	11	0	10	0	375	3	2	1	0	15	8	4	12
Totals.....	1996	447	0	241	11	88	0	2433	50	39	11	0	205	97	1583	260

Number of cases of contagious diseases reported to the School Department for the year ending December 31, 1905.

Diphtheria	103	Scarlet Fever	33
Measles	73	Membraneous Croup	2
Cerebro Spinal Meningitis	37	Small Pox	1

COURSES OF STUDY

Time Table, in Minutes per Week for the Primary
and Grammar Schools

	1st Year	2d Year	3d Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year
Reading	755	590	520	300	220	200	160	150	150
Arithmetic	150	210	240	250	280	280	280	280	180
Algebra									120
Grammar							130	150	170
Comp. and Lang.		75	75	150	150	200	100	100	100
Geography			30	180	180	180	170	150	150
History	20	20	30	40	60	60	140	150	150
Spelling	60	90	90	100	100	100	100	100	90
Writing	60	60	60	60	60	60	60	60	60
Drawing	60	60	60	60	60	60	60	60	60
Music	60	60	60	60	60	60	60	60	60
Nature Study	30	30	30	60	60	30	30	30	30
Physiology	25	25	25		30	30	30	30	
Sewing				60	60	60			
*Manners, Morals	25	25	25	25	25	25	25	25	25
Physical Culture	30	30	30	30	30	30	30	30	30
†Recesses	200	200	200	100	100	100	100	100	100
†Opening Exercises	25	25	25	25	25	25	25	25	25
Totals	1500	1500	1500	1500	1500	1500	1500	1500	1500

* Required by State Law ; time fixed at five minutes each day by vote of the School Committee.

† See Sec. 21, Chap. III, of the Rules of the School Committee.

‡ See Sec. 22, Chap. III, of the Rules. If for any reason a recess is shortened or omitted the time for the same should be given to physical exercises, and the Rules forbid that the hours for closing school which have been prescribed by the School Committee should be changed.

Book-keeping may receive one-half the time assigned to penmanship in the ninth year.

The above table is intended as an approximate estimate of the relative importance of the different studies, and teachers are at liberty to vary the time for each study within such reasonable limits as circumstances may require.

COURSES OF STUDY

FIRST YEAR.

Reading.—Primers or First Readers of any of the dozen or more authorized series. Teach at first by the sentence and word method, beginning with script or print on the blackboard. As soon as a few words are learned use phonic analysis to assist in the recognition of new words, and to insure distinct articulation. On the subject of phonetics consult Ward's "Manual of Instruction" or Gordon's "Comprehensive Method." Give much drill on phonograms and their blending into words, and see that all sentences are spoken as wholes. The aim here, as everywhere, should be to secure comprehensive thought, natural expression, correct pronunciation, distinct articulation and ready utterance.

Writing.—Words and sentences from teacher's copy on pupils' desk, and from blackboard or chart. The teaching of spelling should be included in the same exercise. See Ward's Manual, page 29. Make sure that no pupil forms the filthy and unsanitary habit of putting his pencil in his mouth. If all the letters of the alphabet have not been learned by the pupil by the end of the year, unconsciously, give a little special instruction to accomplish this object.

Language.—Children should be led to talk freely about things with which they are familiar and to reproduce short stories told them by the teacher. Memory gems, brief maxims, and short selections of poetry should be learned and recited in this and all succeeding grades. History and literature in the form of short stories should have some place from the first, care being taken to have such stories very simple as well as short. Whenever possible make stories more interesting by showing objects and pictures. Begin writing short sentences and teach the capital at the beginning of the sentence, the capital I and the period and interrogation mark.

Arithmetic.—Numbers, oral and written, first half to five and second half to ten inclusive. Use objects at first, but discard them as soon as pupils can do without them. Arabic and Roman notation to ten. Teach and use the signs $+$, $-$, $\times$, $=$. Teach objectively the fractions $\frac{1}{2}$, $\frac{1}{4}$; coins from one cent to 10 cents, pint, quart, inch.

Physiology.—In this and all primary grades adopt in general and follow as far as possible the Report of the Committee of Fifteen or

the very similar "International Course" of the W. C. T. U. Copies of these courses have been furnished, or will be supplied on request.

Manners and Morals.—As required by the Statutes of the Commonwealth and printed on page 26 of the Rules of the School Committee in this and all succeeding grades. Miss Wiggin's "Lessons on Manners," may well serve as a manual, especially in higher grades.

Nature Study, Music and Drawing.—In all grades as directed by supervisors.

SECOND YEAR.

Reading.—Second readers, with phonetic drill as before. The ideal in this and all succeeding grades of the primary course is to have thoughts given as wholes with no hesitating over or at the separate words. To enable pupils to do this all new and difficult words should be pronounced and their meaning explained before oral reading is begun. Then, by questioning, make sure that the pupil fully understands what he has seen in print, and allow him to read, orally, only when he is ready to do so without halt or break.

Writing.—Sentences and words as in the first year, and from dictation. If any pupils have a habit of putting pencils in mouths, consider it an important duty to break it up. Use capitals, the period and the question mark. As before the same exercise should teach spelling. Oral spelling is also advised.

Language.—Teach the use of good English by illustration in readings and story telling, using for this purpose selections simple enough to be suited to the children and yet such as are in good literary form, and give much practice in reproductions, both oral and written. The literature best adapted to this grade is that of fairy tales and folk lore stories, and the history is that of mythology and legend. Local history should receive attention, and such stories as those of Columbus, the Pilgrims, Washington, etc., are appropriate. Suit history to holidays, as "The First Thanksgiving" to November, etc.

Arithmetic.—Numbers, oral and written, in separations, combinations and relations, to twenty in the first half and to fifty in the second. Objects may be used if necessary, but ought not to be

greatly needed. Roman notation to fifty. Coins and dollar sign; pint, quart, gallon; pint, quart, peck, bushel; inch, foot, yard; hour, day, week, month, year; dozen. Fractions, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$.

THIRD YEAR.

Reading.—Advanced second readers, and easy third readers. The habit of reproducing that which has been read, usually orally but sometimes in writing, becomes in this and succeeding grades a matter of the greatest importance, and every reading lesson should have in connection with it some work of this kind.

Writing.—On paper with pen or pencil, and in the writing book with pen. In all written work in language, nature study, etc., insist on order, neatness, and the very best penmanship of which the pupil is capable. Allow no pupil to use a pencil who puts it in his mouth; such pupils, if any there are, should be required to do all written work with pen and ink.

Spelling.—Words and sentences copied from books or from the blackboard, and afterward written from dictation. New words in the reading lesson spelled orally, and afterward written in sentences. Give much drill on familiar words which are often misspelled.

Language.—Oral and written exercises, reviewing and extending all work of previous grades. At the end of the year pupils should be able to talk in recitations or reproductions with considerable ease and in generally correct form, and should be able to write from dictation, or to compose and write, simple sentences legibly and correctly. They should have had some practice in letter writing, and should have such knowledge of spelling, punctuation marks, capital letters, and common abbreviations as is needed in such writing. The work to be done is indicated in the foregoing statement.

The work in history and literature may be extended somewhat, both in use and in subjects. A little written reproduction may be added to the oral, and stories for literary culture may include myths, fables and folk lore, such as are given by Hawthorne in his "Wonder Book," or Scudder in his collection of folk lore tales. In myths, choose those of natural objects, as "Ulysses and the Bag of Winds," etc. History may include more stories of noted men and events. The history of Lowell is worthy of much attention, especially the story of its founding. Note use of Indian names, as Wamesit, Merrimack, Pawtucket, etc. Use pictures when possible. History readers or story books will be furnished as asked for.

Arithmetic.—Numbers to one hundred. Arabic and Roman notation to one thousand. Review and extend the work of all previous grades. To be ready for promotion to a grammar school, children should be able to add columns of figures to a total of 100 rapidly and accurately; to know the multiplication table to ten times ten so as to be able to give products instantly; to use all the common tables of denominate numbers in simple reductions; and to add, multiply, subtract and divide small fractions like $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$.

Geography.—Teach points of compass with application to many objects in and about the school house. At appropriate times give observation lessons on natural phenomena, as clouds, frost, snow, etc. Note temperature as warm, hot, or cold, and the weather as sunny, cloudy or rainy. Keep weather records. For further suggestions consult Frye's Primary Geography.

GRAMMAR SCHOOLS.

FOURTH YEAR.

Reading.—Authorized third readers and supplementary reading of the same grade. Correlate history and geography with reading by the use of stories of heroes either real or mythological, and by books of travel or accounts of strange countries and unique productions in this and in all higher grades.

Spelling.—Words in common use, orally and in writing. Require definitions or the use of words in sentences to make sure that meanings are understood. Make every written exercise a lesson in spelling. Select words for practice from all text books used, and for supplementary drill use authorized text books as follows: Worcester, first half to page 29; second half to page 47; Reed, first half to page 24; second half to page 38; Morse, first half to page 10; second half to page 30.

Arithmetic.—Numbers to 1000. Daily oral drill in numbers to 100, as in the primary schools. Written work, with numbers usually small enough to be expressed by three figures, in addition, subtraction, multiplication and division, no multiplier or divisor to be larger than 9. Use terms, sum, product, multiplier, etc., but do not require

definitions. Give problems in dollars and cents, using the dollar sign and decimal point. Continue the drill of the primary school in easy reductions of denominate numbers. Teach the reduction, addition, subtraction, multiplication, and division of the fractions $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{3}$, $\frac{1}{6}$, illustrating all processes by objects, but using the written expression from the first. Second half, continue and extend all work of the first half. Notation and numeration to 1,000,000. Multiplication with multipliers large enough to be expressed by two or three figures; and long division, no divisor larger than 25. Decimals to thousandths in addition and subtraction, and in multiplicands and dividends in multiplication and division.

Language.—The expression of thought, orally and in writing, in simple sentences and short stories, with practice in the use of such capital letters, punctuation marks and abbreviations as are necessary to correct writing. Second half, continue work of first half and add the simplest forms of letter writing as outlined in the authorized text book to page 104. Blackboard work strongly recommended.

Geography.—Land and water forms; making and reading maps; form and size of the earth, equator, poles, etc. Make the work of the first four months "Home Geography" as far as possible, always using forms that can be seen as a basis for the comprehension of those which are beyond vision. Second half, the surface of the earth in its great natural divisions; climate; peoples and races. Continue to relate that which is distant to that which may be directly observed as far as possible.

History.—As many stories should be read by the pupils, or told or read to them by the teacher, as time will permit, but the number of facts to be required for reproduction should be very few, probably not more than could be written on a page of foolscap, or told by a class in the time of a single recitation. These few, however, should be learned with the utmost exactness and thoroughness; they should be planned to form the basis of all future study of the history of the United States from Columbus to the end of the nineteenth century; should include a few dates like 1492, 1776, etc.,—a half dozen will do very well, but these few should be so learned as to be recalled as automatically as the child would recall his own name. In the recitation of facts intended to be mastered, no mistakes should be tolerated; nine-tenths of the teaching, however, should not have the memorizing of facts, names and dates as any part of its object, but should aim to quicken interest, broaden vision, stimulate patriotism and develop

character through appreciation of courage, loyalty and virtue as exemplified in the heroes of history. Use pictures, relics, etc., to increase interest as far as possible, and remember that whatever else is accomplished the lesson is a failure which does not leave the class with a desire for further study.

Nature Study, Drawing, and Music as directed by the supervisors of these branches in this and succeeding grades. Sewing under the direction of the special teacher in this and the next two grades.

FIFTH YEAR.

Reading.—Fourth readers and supplementary books.

Spelling.—As in the fourth year, with words for supplementary drill, first half to page 69 in Worcester; second half to page 93; in Morse, first half to page 44; second half to page 64; Reed, first half to page 56; second half to page 79.

Arithmetic.—Continue all the work of the previous year. Whatever else is omitted see that oral drill and rapid written work with small numbers are given prominent places on the programme. In written work give many examples and problems with small numbers, rather than a few with large numbers. Long division with divisors of not more than three figures. In addition to constant practice with fractions already learned, teach $\frac{1}{6}$, $\frac{1}{12}$, $\frac{1}{5}$, $\frac{1}{10}$, and continue practice in the use of decimals and denominate numbers. In the use of the authorized text book omit all the examples involving long and tedious operations with large numbers. Second half, continue work of the first half. Teach fractions to and including twenty-fourths. Teach least common multiple when needed as a means of finding the least common denominator of fractions, and factoring and cancellation when needed for practical use. Extend work of previous years in denominate numbers to include all simple reductions.

Language.—As in the fourth grade the work is still to get from the pupil the expression of thought in correct language, both oral and written. In this work clearness of thought is of primary importance. The pupil must first have something to say, and then be taught to say it in terse and correct English. Dictation, reproduction, narration work and letter writing are approved methods of securing the result desired. Second half, to work previously done add the study of sentences by name, as declarative, interrogative, etc., with their division into subject and predicate, and begin the study of words and

their uses in the sentence to include nouns, verbs and pronouns to page 210 in the authorized text book. Continue to have pupils do much writing on the blackboard.

Geography.—North America, its surface, peoples and countries; the United States as a whole, surface, climate, people, products and trade routes, making the work simple, general and elementary as would be suggested by authorized text books. Second half, complete continent study along the same lines and in the same elementary way as before, to page 115 in authorized text book.

History.—First, review the facts which were taught in the fourth year so thoroughly and constantly that no one of them shall escape. Second, add about as many new facts, dates, etc., as were mastered in the last year, and teach them with the same thoroughness and intensity as was then demanded. Cover the whole period of the history of civilized man in America, selecting the new matter of this year so as to fill out and supplement the brief outline of the previous year, and relate our history to that of the world's whole past as far as such relation is natural and helpful. In teaching a few indispensable things be satisfied with nothing less than perfection, and for the rest and by far the most of the time have pupils read and enjoy the stories which are the life of history, without attempting to burden them with the recollection of all they read. Correlate with Geography, make and use maps, draw, use pictures, make collections, etc.

Physiology.—Book No. 1 of the Union series, as a reader, with such comment and instruction in this and succeeding grades as shall comply with the following law of this state: "Physiology and hygiene, which shall include special instruction as to the effects of alcoholic drinks, stimulants and narcotics on the human system, shall be taught as a regular branch of study to all pupils in schools supported by public money."

SIXTH YEAR.

Reading.—Fourth Intermediate and supplementary books.

Spelling.—As before correlate spelling with every subject taught. Make every written exercise a lesson in spelling, and for supplementary drill use Worcester first half, to page 111; second half to page 125; Morse, part III to page 73; second half to page 82; Reed, first, to page 92; second, to page 106.

Arithmetic.—Continue oral drill and rapid written work with small numbers. Review and extend work in fractions, but do not attempt to master the too difficult problems of the text books. Teach decimals more fully than before, and give many problems involving the use of United States money and the reduction of denominate numbers. Second half, continue all work of first half. Practice in compound numbers should include all common reductions, but should omit addition, subtraction (with the exception of the subtraction of dates), multiplication and division of compound numbers as such, longitude and time, metric equivalents, etc.

Language.—Study of words and their uses continued to include all the Parts of Speech. Second half, classes of nouns as common and proper, singular and plural, the changes of form which are necessary to indicate possession, and their uses as subjects or objects of the verb, the distinction of person in pronoun, and the use of predicate adjectives. Teach clauses, and the distinction between simple and complex sentences.

The foregoing is the new work of the year, but it should not be allowed to prevent the giving of the larger part of the pupil's time to a continuation of the more important work of the fourth and fifth years in the correct expression of thought in language both oral and written, with careful attention to paragraphing, spelling, punctuation, capital letters, abbreviations, etc., in the written work. Continue blackboard practice.

Geography.—The groups of states which compose the United States in detail, yet in the same general and elementary way as before. Second half, foreign countries in detail to complete geographic study so far as its elementary phase is concerned.

History.—The study of our country as a formal study but with a simple and elementary text book. First half to end of French and Indian war, 1763; second half to present time.

Physiology.—Book No. 2 of the Union series, as a reading book, with comment and instruction as before.

SEVENTH YEAR.

Reading.—Intermediate and supplementary readers.

Spelling.—Work of the sixth year continued. For supplementary drill use Worcester, first half to page 135; second half to page

145; Morse, first half to page 91; second to page 112; Reed, first to page 118; second to page 128.

Arithmetic.—Review constantly the work of all preceding years, but especially the work in fractions and denominate numbers. For advance work take up percentage, with applications to profit and loss, insurance, brokerage, taxes, etc. Second half, to work of first half add interest, simple and compound, with applications to promissory notes and discounts at banks.

Grammar.—"Study of the sentence as a means of expressing thought, with such attention to the parts of speech and their classification and inflection as may be necessary to a clear understanding of the construction of the sentence." To page 135 in the *Mother Tongue*, Book II. Three lessons each week.

Language.—Letter writing, business forms, social notes, paragraph and sentence study, descriptions, study of selections, etc., as planned in Miss Arnold's "Outline of a Course of Study in Language," seventh and eighth grades, pages 18, 19 and 20. Two connected periods each week. Some writing on blackboard each day is recommended.

Geography.—A review and extension of the work of the fourth grade, with a larger text book and more scientific treatment; the earth as a whole with its forms of land and water, and the people, plants and animals which live upon it. Difficult explanations of change of seasons, etc.; sections 19, 20, 21 in text book, may be omitted in this grade and taken up in the ninth at the option of grammar masters. Second half, mines and quarries; highways of trade; the United States in general; view of its people, soil and climate.

History.—Discovery, exploration and conquest of America to date of first permanent English settlement in greater detail than before, but with constant use of the outline already learned, using the order of the authorized text books. Relate the history of this country as far as possible to the European, and especially to the English history which preceded it. Second half, the settlement of North America to the beginning of the French and Indian War.

EIGHTH YEAR.

Reading.—Fifth readers and supplementary books.

Spelling.—Relate spelling to all other subjects taught as in previous years, and use the authorized text books for additional drill. Worcester, first half to page 155; second half to page 163; Morse, first half to page 120; second half to page 128. Reed, first half to page 140; second half to page 153.

Arithmetic.—Review the work of all previous years, with further applications of the principles of percentage and interest to stocks and bonds, exchange, etc., and add partnership, ratio and proportion. Of subjects treated in the authorized text book omit equation of payments, problems in exchange involving interest-bearing drafts, and the more complicated problems in partnership. Second half, involution, evolution, to include second and third roots, and mensuration of plane surfaces to and including circles.

Grammar.—Sentence study continued, with “a detailed study of the parts of speech, their classification and inflection, and the details of analysis and construction which are necessarily associated with such study.” Three periods weekly. Text book to page 267.

Language.—Continuation and extension of the work of Grade VII. For details consult Miss Arnold’s outline as before.

Geography.—Study of the United States as a whole completed, and study of separate states in groups taken up far enough to include all the eastern, southern and central states. Second half, study of the separate states and detached possessions of the United States completed, and a similar study made of the other countries of North America, South America and Europe.

History.—The conquest of Canada and the development of the English colonies in America into the United States to the time of the Treaty of Paris in 1783. Second half, the establishment, growth and history of the Union under the Constitution to the administration of Andrew Jackson, 1829.

Nature Study.—Birds, from observation, for recognition, knowledge of the time of arrival and departure of those which are migratory, habits, food, nesting, etc. All pupils ought at the end of the year to know from personal observation a dozen kinds, and some, with proper encouragement and assistance, will know from seventy to eighty.

NINTH YEAR.

Reading.—Fifth readers, Masterpieces of American Literature and other supplementary books. Read and study as literature, Irving's *Rip Van Winkle* and Longfellow's *Evangeline*, in the first half, and Whittier's *Snow Bound*, Hawthorne's *Great Stone face*, and Lowell's *Vision of Sir Launfal* in the second.

Spelling.—As in previous years, with supplementary drill on words found in the last part of Worcester's *Speller* in the first half, and in the whole book in the last half. Morse, first half to page 128; second, complete and review; Reed, finish and review.

Arithmetic.—First half a review of fundamental processes with numbers both integral and fractional, factoring, the finding of divisors and multiples, percentage, and so much of geometry as is found in the *Werner Arithmetic*, Book III, to page 150; second half, percentage continued with applications to discounts, interest, stocks, etc., ratio and proportion, powers and roots, denominate numbers, etc., with general review of the whole subject of arithmetic and so much of geometry as is given in the authorized text book to page 256. Metrics at the option of the teacher.

Algebra.—Work in algebra may follow the order of the authorized text book on algebra, or of the arithmetic. In the latter case algebraic fractions may be omitted in the first half of the year, at the option of the teacher, and only so much work is required in the whole year as will be equivalent to the completion of the subject to page 71 in *Wentworth's "First Steps in Algebra."* The algebra may be taken with the arithmetic or alternated with it, but should not receive more than two-fifths of the time allotted to mathematics in the ninth year.

Grammar.—Sentence analysis with more difficult constructions, and such study of more difficult relations of words in sentences and of phrases and clauses, as shall be necessary to the comprehension and use of the English language.

Language.—As planned in Miss Arnold's outline, pages 20, 21 and 22.

Geography.—Asia, Africa and Australia. Omit geographic study in the last half of the year.

History.—First half, complete the history of the United States to date. Second half, review the whole subject.

Bookkeeping.—One-half the time allotted to penmanship may be devoted to bookkeeping.

Nature Study.—Trees from observation. Pupils ought to be able at the end of the year to locate and describe forty varieties which they have seen in or near the city.

HIGH SCHOOL

	Classical	College	Scientific	Modern Language
First Year	*Latin I. *Algebra. *English I.	*Latin I. *Algebra. *English I. *Physics <i>hf</i> .	Latin I or Man. Tr. I. *Algebra. *English I.	*French I. *Algebra. *English I.
Second Year	Latin II or French I. Geometry. Physics. *Hist. and Eng. II.	*Latin II. *Geometry. Gr. I or Fr. I. *Hist. and Eng. II.	Lat. II or Man. Train. II. *Geometry. *French I. *Hist. and Eng. II.	*French II. Geometry *Physics *Hist. and Eng. II.
Third Year	Latin III or Fr. II or I. *Hist. and Eng. III. Physiology <i>hf</i> . †Astron. and Geol. Chemistry I. German I. Rev. Alg. and Geom.	*Latin III. *English III <i>hf</i> . *French I. *Coll. Math. Gr. II or Fr. II. German I. *Gk. and R. Hist.	*Coll. French. *English III <i>hf</i> . *Coll. Math. *Hist. IV. *Coll. Physics or German I.	*French III. *Hist. and Eng. III. Physiology <i>hf</i> . †Astron. and Geol. German I. Chemistry I. Rev. Alg. and Geom.
Fourth Year	Latin IV. or Fr. II or III. *English IV. History IV. Botany <i>hf</i> . German I or II. Chemistry II.	*Latin IV. *English IV. *Coll. French II. Gr. III. or Fr. III. German I or II. Geom. and Trig. Coll. Physics.	French III. Ger. I or Coll. Phys. *English IV. *Geom. and Trig. Chemistry I.	German I or II. *English IV. History IV. Chemistry I or II. Botany <i>hf</i> .

*Prescribed.

†Astronomy and Geology may be taken the fourth year instead of the third year.

Manual Training	Commercial	Textile School	Five Years College All Studies Prescribed
*Man. Train. I. *Algebra. *English I.	*Bookkeeping I. *Alg. and Ment. Arith. *English I. *Com. Geog. <i>hf.</i>	Latin I or French I or Man. Train. *Algebra. *English I.	FIRST YEAR. Latin I. Algebra. English I. Physics <i>hf.</i>
*Man. Train. II. Geometry. Physics. French I. *Hist. and Eng. II.	*Bookkeeping II. *Com. Law and Arith. French I. Geometry. Physics. *Hist. and Eng. II. (Select 4)	Latin II or French II or Man. Train. II. *Geometry. *Physics. *Hist. and Eng. II.	SECOND YEAR. Latin II. Greek. Hist. and Eng. II. Geometry.
*Man. Train. III. *Hist. and Eng. III. Physiology <i>hf.</i> French II or I. †Astron. or Geol. German I. Chemistry I.	*Bookkeeping III. *Stenog. and Type- writing I. *Hist. and Eng. III. Physiology <i>hf.</i> French II or I. German I. Chemistry I.	*Chemistry I. *Coll. Math. French III or I, or German I. *English III <i>hf.</i>	THIRD YEAR. Latin III. Greek II. English III <i>hf.</i> French I.
*Man. Train. IV. French II or III. German I or II. *English IV. Geom. and Trig. Chem. II or Chem. I. History IV.	*Stenography II. *Typewriting II <i>hf.</i> French II or III. *English IV. History IV. German I or II. Chemistry II.	*English IV. *Coll. Physics. Fr. II or German I or II. Chemistry II. History IV. *Geom. and Trig.	FOURTH YEAR. Review Latin III. Review Greek II. English IV. Gr. and R. Hist. Coll. Math.
			FIFTH YEAR Latin IV. Greek III. Coll. Physics. Coll. French II.

*Prescribed.

†Astronomy and Geology may be taken the fourth year instead of the third year.

NOTES ON HIGH SCHOOL COURSES OF STUDY.

Pupils who intend to enter the High School are requested to consider the preceding courses of study with great care, as changes from one course to another during the year are impracticable, and a change after the first year may cause the pupil to lose time. The teachers of the school will gladly give parents and pupils any assistance and advice possible in their selection of studies.

In each course, certain studies are prescribed, but the pupils may make up the remainder of the required studies from a wide range of elective subjects. The prescribed studies in each course are starred. Satisfactory completion of three years' work in any course will entitle the pupil to a three years' diploma. Satisfactory completion of four years' work in any course will entitle the pupil to a four years' diploma. Those who satisfactorily complete the five years' College course will be entitled to a five years' diploma.

The Classical Course is intended for students who do not intend to enter College, but who desire the best general education that the High School furnishes.

The College Preparatory Course will fit students for any American College and may be completed in four or five years. It is necessarily difficult. The student is advised to take five years in preparation for Radcliffe or Harvard College.

The High School has been approved by the New England College Entrance Certificate Board and the school certificate of preparation is accepted by all the institutions represented on this Board which includes Amherst College, Boston University, Bowdoin College, Brown University, Dartmouth College, Mount Holyoke College, Smith College, Vassar College, Tufts College, University of Maine, Wellesley College, and Wesleyan University. Under the certificate method of admission to college the school is held responsible for the grade of work done by its students in college. Experience has shown that unless

students are able to attain easily grade B (80-90 per cent.) in their High School work, they will be unable to do the quality of work demanded by the above named colleges. Consequently, the school certificate must be refused those pupils who are unable to obtain a scholarship standing of more than 80 per cent. Students who fail to obtain the school certificate, may, however, take the admission examinations. The following, taken from correspondence with one of the colleges, is quoted to show the general attitude of the colleges in regard to the use of the certificate method of admission:

"Some of our best schools are protecting their own certificates by demanding a higher standard of excellence for certification to college than for graduation, and requiring all doubtful men to submit to the test of a college entrance examination; we recommend this policy for all schools. It must always be borne in mind that the certificate system is not designed as a means for making it easier for a poor scholar to enter college, but simply for placing the decision of fitness upon the men who best know his attainments; the protection of the integrity of the certificate is of equal importance to school and college. The college is keeping a permanent record of the results obtained from each school, as determined by the work of their men during the first semester of Freshman year."

The Scientific Course will prepare students for the Institute of Technology, the Worcester Polytechnic, the Chandler Scientific and other technical schools.

The Modern Language Course is similar to the Classical Course, but requires a modern foreign language instead of Latin. In educational value it is practically equivalent to the Classical Course.

The Manual Training Course offers a combination of the ordinary High School studies with practical work in the use of tools and machines, together with a complete course in mechanical drawing and technical drafting, and allows the student to specialize somewhat in mechanical work. It also furnishes an excellent general training.

Note.—Candidates for the Massachusetts Institute of Technology and Worcester Polytechnic School should not take this course for more than two years, as manual training counts only as an elective in the admission requirements.

The Commercial Course is designed for those who expect to engage in business pursuits upon leaving the High School, and has been arranged so that the pupil will receive the same amount of mental

training and therefore will acquire as much mental power as in any other course. It is not less educational than other courses and must not be selected with the conviction that it is "easy."

Subjects marked hf have a value equivalent to only one-half of those without such mark, and such subjects will come on alternate days.

There will be no formal examinations in the middle and at the close of the year, but the standing of the pupil will be made up from his daily recitations and frequent tests. This standing is indicated by letters on the monthly reports, which are sent home for parents' inspection. A, shall indicate a mark from 90 to 100 per cent; B, a mark from 80 to 90 per cent; C, a mark from 65 to 80 per cent; D, between 50 and 65 per cent; and E, any mark below 50 per cent.

A standing of C for the year must be attained in order to pass a given subject. A standing of B is required for permission to take the college preliminary examinations. A final mark of D or E means failure. If the failure is in a required subject, the subject must be repeated; if in an elective, an equivalent subject may be substituted. Pupils who have completed nine, five or two full subjects will be classed respectively as fourth year, third year or second year students. Those who have completed a less number for each year will be classed respectively as third year, second year and first year students.

In preparation for the Normal School, select either the Classical Course or the Modern Language Course, preferably the former. The candidate should select four studies for the second year and should be prepared in Mathematics and Science for the preliminary examinations in June of the third year. For Medical Schools and some of the smaller colleges, select the Classical Course. For other colleges select the College Course. In this course French and German may be substituted for Greek in preparation for some colleges. For the Lawrence Scientific School, select the College Course, or the College Course with Manual Training in place of Physics.

By an examination of the courses of study, it will be seen that for a diploma a minimum number of subjects in each year of each course is required. But in preparing for the higher institutions of learning more than the minimum number of subjects, depending on the requirements of the college, will need to be taken. At the beginning of his second year, the pupil, therefore, should decide upon the college or school for which he wishes to prepare, and should select his subjects to fit the requirements. He should make himself familiar with the requirements and also obtain the advice of his

teachers in selecting his subjects. Candidates for Smith, Wellesley, Mt. Holyoke and Vassar should send applications for admission as early as their third year.

Classes will not be formed in electives for less than twenty pupils in the first or second year, fifteen in the third year, and twelve in the fourth year.

Unprepared work in Music, Calisthenics, Elocution, Ethics, and Military Drill, is required.

Calisthenics and Military Drill are optional the fourth year. Elocution is prescribed throughout the course for all pupils except those who are pursuing four full studies. In this connection Book-keeping is considered a half study.

Three years' work in Calisthenics and Elocution, or Military Drill and Elocution, provided the attendance at these exercises is 90 per cent of the possible attendance, will be considered as equivalent to a half subject for a diploma. Four years' work will be considered equivalent to a full subject.

Since Bookkeeping requires no preparation outside the classroom, when taken as a part of any other course than the Commercial Course, it will be counted only as a half subject for a diploma.

MINIMUM NUMBER OF SUBJECTS REQUIRED FOR A DIPLOMA.

First Year.—Three and one-half subjects in all courses.

Second Year.—Three subjects in all courses except the Commercial Course, in which four must be taken.

Third Year.—Three and one-half subjects in all courses.

Fourth Year.—Three and one-half subjects in all courses.

ROLL OF TEACHERS.

Giving Name, Grade, Residence, Date of Election and Salary.

HIGH SCHOOL.

Kirk and Anne Streets.

CYRUS W. IRISH, Headmaster, 308 Nesmith street...	1885	\$3000
FRANK B. SHERBURNE, Sub Master, 58 Dover street, Greek and Latin	1883	2500
MARY A. WEBSTER, First Assistant, 45 Varney street, English and Mathematics	1859	1000
CHARLOTTE E. DRAPER, 47 Belmont avenue, Cæsar, Astronomy, Geology and Geometry	1870	1000
SUSIE L. D. WATSON, 390 East Merrimack street, United States History and Mathematics	1885	1000
ADELAIDE BAKER, 136 Myrtle street, French	1885	1000
JENNIE L. ALLEN, 947 Middlesex street, Physics and Physiology	1885	1000
EMMA L. BRADLEY, 485 Westfort street, French.....	1890	900
GERTRUDE A. RODLIFF, Chelmsford Centre, Mass., History and English	1890	900
MARIETTA CASSIDY, 4 Fifth avenue, Latin and Alge- bra	1890	900
GEORGIANA F. VINTON, 52 Fourth street, History English and Algebra	1872	1000
GRACE M. GOODHUE, 120 School street, Ancient History and Latin	1893	900
BESSIE E. HUNTOON, 64 Warwick street, French and Physiology	1894	900
GRACE WARD, 279 Chelmsford street, Physics and Physical Geography	1895	900

MARY E. O'CONNOR, 60 Varnum street, History and English	1896	800
CARL D. BURTT, 93 Fort Hill avenue, Greek and German	1895	1800
FREDERICK R. WOODWARD, 168 Sixth street, Mathematics	1895	1800
HELEN M. LAMBERT, 283 Pawtucket St, Chemistry	1897	800
THOS. F. FISHER, 305 East Merrimack street Manual Training	1898	1500
EDWARD S. COLTON, JR., 21 Huntington street, Bookkeeping	1900	1500
MARY G. STEVENS, 263 East Merrimack street, English and History	1900	800
MARY H. KILLPARTRICK, 609 Stevens street, English and Commercial Geography	1901	800
NATHANIEL H. ATKINS, 88 Warwick street, Commercial Law and Bookkeeping	1901	1200
ADELAIDE E. SWEETSIR, 276 Westford street, English and Algebra	1902	800
MARGARET V. SPEAR, 576 Westford street, French and English	1902	800
ERNEST M. HUNT, 90 Chestnut street, Shorthand and Typewriting	1902	1200
ETHEL W. WHITCOMB, 2 Belmont street, Shorthand and Typewriting	1903	800
MIRION H. MILNER, 102 Chestnut street, Physical Culture and Elocution	1902	800
EDWIN M. ROBERTS, 74 Stevens street, Manual Training	1904	800
ETHEL M. EVERETT, 12 Belmont street, English and Algebra	1905	650
ELIZABETH H. MURPHY, 159 Third avenue, French and English	1905	650
ALICE RICHARDSON, 213 Branch street, Algebra and English	1905	650
COLBY T. KITTREDGE, 14 Ralph street, Military Instructor	1901	500
KATHARINE H. COGGESHALL, 108 Appleton street, Secretary	1899	600

H. FORDYCE COBURN, M. D., Medical Adviser	1905	200
JOHN E. BARR, temp., 53 Beech street		
WM. M. DENNETT, temp., 55 Read street		
LEROY F. SWIFT, temp., 219 East Merrimack street		
ALICE H. BACHELLER, temp., 25 Nesmith street		
AVIS J. COBURN, 145 Beacon street, Librarian		

BARTLETT GRAMMAR SCHOOL.

Wannalancit Street.

CYRUS A. DURGIN, Master, 117 Bowers street	1891	\$2000
BELLE A. PRESCOTT, 9th year, 68 Mt. Washington street	1878	600
CHARLOTTE M. MURKLAND, 8th year, 117 Bowers street	1898	600
BLANCHE A. CHENEY, 8th year, 34 Arlington street	1896	600
AMY L. TUCKE, 7th year, 111 Butterfield street.....	1880	600
FRANCES CLARK, 7th year, Chelmsford Centre	1899	600
BELLE F. BATCHELDER, 6th year, 66 Arlington street	1883	600
MARY E. WALSH, 6th year, 9 Corner street	1897	600
M. IDA HOWE, 5th year, 84 Methuen street	1873	600
MARIA W. ROBERTS, 5th year, 414 Andover street..	1875	600
ALICE D. SUNBURY, 4th year, 142 Wilder street	1899	600
CAROLINE H. MCGARVEY, 4th year, 34 Laurel street	1905	600

BARTLETT PRIMARY SCHOOL.

BRIDGET K. SMITH, 3d year, 117 Stackpole street...	1904	\$ 600
SARAH E. AMES, 2d year, 119 Hall street	1902	600
ALICE G. BARRETT, 1st year, 93 Mt. Vernon street..	1901	600
ESSIE E. ROCHE, 1st year, 1835 Middlesex street ...	1903	600

MORRILL SCHOOL.

Common and Adams Streets.

NELLIE M. BROWN, Principal, 3d year, 426 Fletcher street	1865	\$ 650
ANNIE M. COURTNEY, 2d year, 196 Pawtucket street.	1887	600
AGNES T. COURTNEY, 1st year, 11 Marsh street ...	1891	600

CROSS STREET SCHOOL.

Cross Street between Fletcher and Mt. Vernon Streets.

SARAH E. SCALES, Principal, 3d year, 5 Walker ave.	1866	\$ 650
ELLEN M. WHITE, 2d year, 1057 Midlesex street....	1863	600
A. GERTRUDE STILES, 1st and 2d years, 72 Varney street	1895	600
KATHERINE KELLY, 1st year, 98 School street	1893	600

BUTLER GRAMMAR SCHOOL.

Gorham Street.

CORNELIUS F. CALLAHAN, Master, 218 Thorndike street	1885	\$2000
NELLIE F. MURPHY, 9th year, 85 Sherman street....	1878	600
HELEN E. GOOKIN, 9th year, Wamesit	1897	600
MARY I. DONLAN, 8th year, 455 High street	1890	600
MARY E. LANE, 8th year, Billerica	1894	600
DELIA T. BRADY, 7th year, 183 Chapel street	1883	600
KATE E. KELLEY, 7th year, 129 Moore street	1883	600
MARGUERITE J. CRONIN, 7th year, 228 Plain street	1900	600
AGNES M. FOLEY, 6th year, 37 Newhall street	1887	600
SADIE E. TULLY, 6th year, 105 Westford street	1897	600
ANNIE J. DEVINE, 6th year, 110 Carlisle street	1901	600
MARY L. CROWLEY, 5th year, 52 Mt. Washington street	1902	600
ALICE C. O'BRIEN, 5th year, 22 William street	1897	600

ROLL OF TEACHERS.

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MARY L. McSORLEY, 5th year, 34 Nesmith street...	1879	600
ETTA G. BURNS, 5th year, 154 Perry street	1901	600
KATHERINE M. USHER, 4th year, 465 Parker street	1895	600
JOSIE V. HOAR, 4th year, 87 Mt. Washington street	1901	600
MARGUERITE G. HYDE, 4th year, 5 Floyd street ...	1902	600
KATHERINE M. JANTZEN, 4th year, 3 Olive street	1902	600
ANNA M. BARROWS, temp., 19 Newhall street		

LYON STREET SCHOOL.

Corner Lyon and Central Streets.

ALICE T. LEE, Principal, 3d year, 12 South Walker street	1878	\$ 650
ANNABEL COSTELLO, 2d year, 293 Nesmith street..	1888	600
MARY J. McCARRY, 1st year, 536 Fletcher street.....	1881	600
NELLIE A. HUNT, 1st year, 68 Elm street	1884	600
ETTA M. SMITH, temp., 1110 Lawrence street		

CARTER STREET SCHOOL.

Carter Street.

ISABELLA T. VINALL, Principal, 3d year, 1 Glidden avenue	1873	\$ 650
MARGARET J. CONNORS, 2d year, 48 Walnut street	1894	600
CATHERINE F. BRADY, 2d year, 173 Chapel street ...	1897	600
MARY V. JOHNSON, 1st year, 23 Lombard street....	1897	600
DELIA C. MALONEY, 1st year, 70 Elm street	1901	600

AGAWAM STREET SCHOOL.

Agawam and Barrington Streets.

MARY A. FAY, Principal, 3d year, 115 Stackpole street	1889	\$ 650
SUSAN G. NEILON, 2d year, 135 Andrews street	1895	600
EVA MAGOON, 1st year, 70 Church street	1904	600

LONDON STREET SCHOOL.

Corner of London and West Streets.

ELIZABETH R. MAGUIRE, Principal, 3d year, 4 Astor street	1884	\$ 650
ALICE A. MASTERSON, 1st and 2d years, 352 Christian street	1892	600
MARY F. HILL, 1st and 2d years, 94 Midland street..	1887	600

WEED STREET SCHOOL. .

Corner of Weed and Gorham Streets.

LILLA M. McEVOY, 3d year, 181 Moore street	1893	\$ 650
MARY E. CROWLEY, 2d year, 436 Lincoln street.....	1905	600
MARY F. DEVINE, 1st year, 1527 Gorham street.....	1902	600

EDSON GRAMMAR SCHOOL.

Highland Street.

CALVIN W. BURBANK, Master, 130 Bowers street..	1872	\$2000
FRANCES M. WEBSTER, 9th year, 45 Varney street	1873	600
ROSALIE T. BURNS, 8th year, 39 Whitehead avenue	1878	600
ANNIE E. DONOVAN, 7th year, 27 Madison street...	1895	600
BERTHA M. ROWLANDSON, 6th and 7th years, 11 Holyrood avenue	1891	600
KATE J. HAYES, 6th year, 15 Floyd street	1879	600
MARGIE F. MARREN, 6th year, 420 Fletcher street..	1886	600
SARAH J. CROSBY, 5th year, 12 Simpson place	1868	600
JULIA A. KENNEY, 5th year, 99 Washington street..	1901	600
MARY A. BALCH, 4th year, 257 Appleton street	1865	600
JULIA B. RIORDAN, 4th year, 58 Second avenue	1897	600
LORETTA L. WARD, 4th year, 220 Fletcher street....	1905	600

CHARLES STREET SCHOOL.

Charles Street, between Gorham and Chapel Streets.

ALICE T. OWENS, Principal, 3d year, 4 Belmont street	1878	\$ 650
ELLA E. GARDNER, 2d year, 225 Branch street	1871	600
ELLEN A. O'CONNELL, 2d year, 48 Mead street.....	1896	600
MARGARET A. HARRAHAN, 1st year, 32 Marshall street	1882	600

COTTAGE STREET SCHOOL.

Corner Cottage and Chapel Streets.

ROSE E. MacVEY, Principal, 3d year, 46 Linden street	1887	\$ 650
ANNIE L. MURPHY, 1st and 2d years, 870 Gorham street	1901	600
E. LAURA MOORE, 1st and 2d years, 8 Pine street....	1905	600

ELIOT SCHOOL.

Corner Favor and Summer Streets.

ELLEN A. STILLINGS, Principal, 1st and 2d years, 24 Bellevue street	1875	\$ 650
ELLEN A. CORBETT, 3d year, 32 Highland street....	1878	600
NELLIE T. O'GRADY, 2d year, 73 Newhall street....	1881	600
LOYOLA McCANN, 1st year, 17 Wentworth avenue...	1893	600

GREEN GRAMMAR SCHOOL.

Merrimack Street.

ALBERT L. BACHELLER, Master, 25 Nesmith street	1874	\$2000
RUTH B. BAILEY, 9th year, 142 Wilder street	1871	600
CLARA A. HANAFORD, 8th year, 142 Wilder street..	1869	600
SADIE F. McCORT, 8th year, 13 Ralph street	1901	600
LIZZIE A. NOLAN, 7th year, 301 Pawtucket	1876	600

ROLL OF TEACHERS.

ESTHER G. DONLAN, 7th year, 455 High street	1897	600
JENNIE E. FAY, 6th year, 115 Stackpole street	1891	600
MARY M. KEARNEY, 6th year, 94 Andrews street...	1895	600
LENA A. GOOKIN, 5th year, 20 Walden street	1880	600
CATHERINE F. MCCARTHY, 5th year, 647 Market street	1889	600
ELLA J. CARLETON, 4th year, 1072 Bridge street....	1882	600
ANNIE T. DELAY, 4th year, 87 Mt. Washington street	1900	600

KIRK STREET SCHOOL.

Corner Kirk and Lee Streets.

ELIZA A. DAVIS, Principal, 2d and 3d years, 100 Can- ton street	1881	\$ 625
LAURA H. PALMER, 1st and 2d years, 35 Thirteenth street	1882	600

CABOT STREET SCHOOL.

Corner Cabot and Ford Streets.

KATHERINE T. LENNON, Principal, 3d year, 144 School street	1885	\$ 650
MARY T. WHELLEY, 2d year, 1 Fenwick street	1897	600
MARY J. MURPHY, 1st year, 112 Jefferson street	1887	600

CHEEVER STREET SCHOOL.

Cheever Street.

IDA J. CLARKE, Principal, 2d and 3d years, 26 Ash street	1887	\$ 650
ANNA A. SARGENT, 1st year, 223 Liberty street	1864	600
MARY G. QUINN, temp., 28 Chapel street		

WORTHEN STREET SCHOOL.

Worthen Street, between Market Street and Broadway.

MARY J. ALGER, Principal, 1st year, 571 Westford street	1868	\$ 650
ESTHER V. GREEN, 2d year, 57 Waugh street	1889	600
MARY R. MARREN, 3d year, 420 Fletcher street	1890	600
MARY E. MEEHAN, 1st year, 224 Worthen street....	1891	600

HIGHLAND GRAMMAR SCHOOL.

(Telephone 1094-2)

Pine Street.

CHARLES W. MOREY, Master, 14 Belmont street ...	1880	\$2000
FLORA I. MOFFITT, 9th year, 502 Wilder street	1887	600
MARY F. FOSS, 9th year, 248 Foster street	1891	600
ESTELLE L. WHITNEY, 9th year, 13 Oakland street	1885	600
ABBIE F. WOODWARD, 8th year, 157 Dartmouth street	1869	600
HELEN A. DOW, 8th year, 149 B street	1905	600
LEONORA K. BATTLES, 7th year, 11 Edson street...	1895	600
ANNA A. BURNHAM, 7th year, 247 Liberty street ...	1894	600
LUELLA A. WARDWELL, 6th year, 13 Oakland street	1870	600
MINNIE C. GRAY, 6th year, 106 Liberty street	1890	600
FANNIE M. CLARK, 5th year, R. F. D. No. 1.....	1874	600
LULU TURNER, 5th year, 11 Edson street	1900	600
CATHERINE G. O'SULLIVAN, 5th year, 105 Mt. Washington street	1905	600
JENNIE E. ROGERS, 5th year, 418 Walker street....	1904	600
GRACE R. SANDERS, 4th year, 67 South Loring street	1897	600
MABEL E. BROWN, 4th year, 172 Branch street	1901	600
EDITH V. COCKERILLE, temp., 210 School street....		

ROLL OF TEACHERS.

LILLIAN A. STROUT, temp., 111 So. Loring street....
 MABEL E. METCALF, temp., 93 Vernon street.....
 ESTHER M. GREEN, temp., 179 Warwick street

HIGHLAND ANNEX.

At Franklin School.

ARVILLA L. READER, 4th year, 216 Appleton street	1871	\$ 600
GRACE F. WARD, 5th year, 6 Appleton place	1893	600

FRANKLIN SCHOOL.

Corner Branch and Middlesex Streets.

SARAH C. FISKE, Principal, 3d year, 246 Appleton St.	1886	\$ 650
LIZZIE S. LOWE, 2d year, 13 Nichols street	1857	600
MARION J. STEVENSON, 1st and 2d years, 63 Prince- ton street	1878	600
KATE G. JONES, 1st year, 119 Andover street	1880	600
ANNIE L. MAHONEY, temp., 41 Butterfield street....		

PINE STREET SCHOOL.

Corner Pine and Gibson Streets.

CARRIE J. BAILEY, Principal, 3d year, 16 Loring street	1884	\$ 650
GRACE I. WASHBURN, 2d year, 15 Loring street....	1897	600
HELEN D. SWAIN, 1st year, 24 Marlboro street	1904	600

DOVER STREET SCHOOL.

Dover Street, between Middlesex and Grove Streets.

CLARA B. HORNE, Principal, 3d year, 87 South High- land street	1877	\$ 650
CLEMENTINE H. BOWERS, 2d year, 18 Loring street	1876	600
BERTHA GARDNER, 1st year, 32 Robbins street	1887	600

MIDDLESEX VILLAGE SCHOOL.

Middlesex Street, corner Cornell Street.

HARRIET F. WAKEFIELD, Principal, 5th and 6th years, 2 Loring street	1889	\$ 650
KATHERINE G. EGAN, 3d and 4th years, 17 Princeton street	1904	600
GERTRUDE E. DANE, 1st and 2d years, 2 Wellington square	1905	600

POWELL STREET SCHOOL.

Powell Street, near Liberty Street.

VIOLA A. HAMBLETT, Principal, 1st and 2d years, 463 School street	1876	\$ 625
ELLEN J. PIPER, 2d and 3d years, 55 Norcross street	1894	600

ABRAHAM LINCOLN GRAMMAR SCHOOL.

Chelmsford Street.

JAMES L. MELLEN, Master, 74 Pentucket avenue....	1893	\$2000
MARGARET M. SPARKS, 9th year, 169 Fort Hill ave.	1894	600
GRACE SCRIBNER, 8th year, 190 Liberty street	1893	600
BRIDE T. SWEENEY, 7th year, 138 Pleasant street..	1900	600
IRMA V. HODGMAN, 7th year, 239 Stevens street ...	1897	600
HELEN J. O'HEARN, 6th year, 649 Westford street..	1900	600
ALICE L. GOOKIN, 6th year, Wamesit	1902	600
MARGARET G. McDONALD, 5th year, 101 Grand st.	1904	600
ESTHER M. DOWNING, 5th year, 57 Waugh street..	1904	600
ELLEN L. FLOYD, 4th year, 124 Stevens street	1887	600
ELLA E. PRESCOTT, 4th year, 169 Liberty street....	1894	600

Primaries in Lincoln School Building.

ELSIE M. PUFFER, 1st year, 942 Middlesex street	1901	600
SADIE M. DEANE, 1st year, 82 B street	1902	600

HOWARD STREET SCHOOL.

Howard Street, between Chelmsford and Hale Streets.

MARION E. GREENE, Principal, 3d year, 96 Pine street	1884	\$ 650
MARGARET S. JAMIESON, 2d year, 112 Shaw street	1904	600

GRAND STREET SCHOOL.

(Howard Street Annex.)

Grand Street, between Westford and Middlesex Streets.

JENNIE M. BENNETT, 1st and 2d years, 24 Bellevue street	1885	\$ 600
CORINNA G. COVER, 1st year, 16 Lombard street....	1901	600

PLAIN STREET SCHOOL.

Corner Plain and Powell Streets.

FLORA H. SPRAGUE, Principal, 3d year, 589 School street	1882	\$ 650
REBECCA A. GARDNER, temp., 2d year, 75 Pine St.		
LILLA M. STANLEY, 2d year, 2 Horn street	1897	600
MINNIE A. WILLSON, 1st and 2d years, 28 Cambridge street	1887	600
LENA M. ROBINSON, 1st year, 68 So. Walker street..	1898	600

MOODY GRAMMAR SCHOOL.

WILLIAM S. GREENE, Master, 454 Andover street...	1883	\$2000
MERCENA F. WHITEHORN, 9th year, 268 E. Merri-mack street	1877	600

ROLL OF TEACHERS.

89

CARRIE A. PAUL, 8th year, 11 Porter street	1891	600
IDA L. SAMUELS, 7th year, 56 Fifth avenue	1898	600
ELLA M. BREEN, 6th year, 23 Marsh street	1893	600
MARTINA F. McMAHON, 6th year, 33 Mead street...	1905	600
FRANCES E. HARDMAN, 5th year, 263 Fairmount street	1873	600
FRANCES E. GARRITY, 5th year, 34 Read street	1874	600
NELLIE C. MAHONEY, 4th year, 17 North street ...	1898	600
FLORA A. OWEN, 4th year, 11 Porter street	1900	600

POND STREET SCHOOL.

Corner High and Pond Streets.

WINIFRED HAGGERTY, Principal, 2d year, 52 Hunt- ington street	1884	\$ 650
ADELAIDE CROWLEY, 1st year, 115 Fort Hill avenue	1894	600
M. GERTRUDE SEEDE, temp., 85 Dover street.....		

HIGH STREET SCHOOL.

High Street, between Chestnut and Everett Streets.

CLARA A. EMERSON, Principal, 3d year, 216 Appleton street	1869	\$ 650
GEORGIA A. HARNDEN, 2d year, 149 Pleasant street	1885	600
MAUDE E. GREEN, 1st year, 238 East Merrimack street	1900	600

SYCAMORE STREET SCHOOL.

Sycamore Street.

FLORENCE E. ROWELL, Principal, 2d and 3d years, 60 Porter Terrace	1900	\$ 625
ELIZABETH B. DAME, 1st and 2d years, 178 First st.	1902	600

PAWTUCKET GRAMMAR SCHOOL.

Mammoth Road, Pawtucketville.

WILLIAM P. BARRY, Master, 1280 Middlesex street..	1887	\$2000
ELLEN M. McDONALD, 9th year, 210 School street..	1878	600
CARRIE M. HART, 8th year, 16 Varney street	1887	600
ELIZABETH A. HART, 7th year, 16 Varney street ...	1886	600
CHARLOTTE C. WALSH, 6th year, 76 Mt. Vernon street	1902	600
JULIA M. HEALEY, 5th year, 11 Warwick street	1870	600
GOLDIE M. GARDNER, 4th year, 15 Columbus avenue	1898	600
MAUDE M. HARDY, 4th year, 37 Waugh street.....	1905	600

NEW MOODY STREET SCHOOL.

New Moody Street.

ELLEN M. HOLDEN, Principal, 3d year, 21 Elghth avenue	1876	\$ 650
EUGENIA L. HOGAN, 2d year, 182 Mt. Vernon street	1889	600
NELLIE F. DAVIDSON, 2d and 3d years, 20 Lombard street	1891	600
ALICE B. BESSE, 2d year, 581 Rogers street	1891	600
ANNA I. CASSIDY, 1st year, 4 Fifth avenue	1902	600
MABEL C. WALSH, 1st year, 145 Mammoth Road	1905	600

LEXINGTON AVENUE.

Lexington Avenue, near Varnum Avenue.

HELEN KOHAWN, ungraded, 63 Thirteenth street..	1877	\$ 625
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TRAINING SCHOOL.

Charles and Lawrence Streets.

(Telephone 531-3)

GERTRUDE EDMUND, Principal, 281 East Merrimack street	1895	\$2000
MABEL W. EWINGS, 3 Astor street	1891	900

ROLL OF TEACHERS.

91

ADDIE B. MERRILL, 465 Bridge street	1892	900
HELEN M. SHEAN, 169 Fort Hill avenue	1891	900
MARGARET C. FOX, 9th year, 8 Eddy street	1900	600
GRACE C. DELANEY, 2d year, 791 Broadway	1900	600
MABEL H. ELA, 407 Walker street	1900	600
HARRIET L. WHEELER, 3d year, 47 Belmont avenue	1900	600
MARY E. SNOW, 1st year, 89 School street	1901	600
ADDIE E. EDWARDS, 550 Westford street	1900	600
IDA M. BENNETT, John street		
HELEN L. CLARK, 86 Sherman street		
GRACE D. DONOVAN, 256 Branch street.....		
ANASTASIA E. DOWNING, 39 Waugh street		
JOSEPHINE S. DUNLAVY, 22 LaGrange street		
MARY I. HALLORAN, 546 East Merrimack street....		
ALICE E. LEAHEY, 35 Oak street		
BLANCHE E. MARSHALL, 48 Marginal street		
CLARA M. MITCHELL, 68 Gates street		
ISABELLA PHELPS, 50 Lamb street		
KATHARINE RAFTER, 12 Walker street		
MARION A. STEVENS, John street		

CENTRAL STREET SCHOOL.

Central Street, opposite Hudson Street.

ELIZA COWLEY, Principal, 3d year, 484 Rogers street	1857	\$ 650
ELIZABETH G. LAWLER, 2d year, 260 High street..	1897	600
ANNA T. COBURN, 1st and 2d years, 27 Methuen St.	1904	600
HELEN A. DRURY, 1st year, 44 Walnut street	1897	600

AMES STREET SCHOOL.

Corner Lawrence and Ames Street.

AMANDA M. HADLEY, Principal, 3d year, 89 Wash- ington street	1870	\$ 650
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KATE F. MURPHY, 2d year, 870 Gorham street	1885	600
MARY E. DREW, 1st and 2d years, 36 Wamesit street	1868	600
EDITH FARRINGTON, 1st year, 182 Perry street....	1905	600

VARNUM GRAMMAR SCHOOL.

Myrtle Street, Centralville.

Telephone 75-2.

HENRY H. HARRIS, Master, 93 Eleventh street	1893	\$2000
ELIZABETH C. KENNEDY, 9th year, 106 Durant St.	1884	600
MARY F. WING, 9th year, 3 Myrtle street	1879	600
AGNES BAILEY, 8th year, 53 Third street	1900	600
DAISY B. MacBRAYNE, 8th year, 24 Beech street....	1900	600
GRACE W. BALCH, 7th year, 434 Westford street ..	1894	600
ELIZABETH M. BUTLER, 7th year, 142 Third street	1901	600
MARY A. FAY, 7th year, 303 Tenth street	1898	600
AGNES T. FAY, 6th year, 303 Tenth street	1891	600
ELIZABETH F. GARRA, 6th year, 109 Bartlett street	1893	600
ALICE R. KEESE, 5th year, 22 Chester street	1881	600
ADA E. HOOLE, 5th year, 173 Warren street	1894	600
ROSE A. DOWD, 5th year, 237 Tenth street	1884	600
JULIA WILLIAMS, 5th year, 156 Sixth street	1886	600
MARGARET F. HOWE, 4th year, 208 South street ...	1900	600
MARY E. THOMAS, 4th year, 40 West Sixth street..	1902	600
ANNIE V. DONOGHUE, 4th year, 24 Wamesit street	1904	600
MARY E. TOBIN, temp., 40 Linden street		

WEST SIXTH STREET.

West Sixth Street, between Coburn and Jewett Streets, Centralville.

STELLA J. ALLEN, Principal, 3d year, 115 Third street	1879	\$ 650
LIZZIE F. LAMERE, 2d year, 63 Canton street	1887	600

ROLL OF TEACHERS.

93

MARION S. KEYES, 1st and 2d years, 102 Third street	1888	600
MARY J. CALLAHAN, 1st year, 117 Durant street ...	1895	600

TENTH STREET SCHOOL.

Corner Tenth and Varnum Streets, Centralville.

MARY F. BEANE, Principal, 3d year, 212 Tenth street	1879	\$ 650
FANNIE H. MURPHY, 2d year, 42 Twelfth street....	1889	600
ALICE A. HOLTHAM, 1st and 2d years, 1107 Bridge street	1887	600
ELLA A. BAILEY, 1st year, 128 Sixth street	1869	600

LAKEVIEW AVENUE SCHOOL.

Lakeview Avenue, Centralville.

MARGARET J. McCLUSKEY, Principal, 3d year, 246 Methuen street	1890	\$ 650
MARTHA ROGERS, 2d year, 131 Cumberland road...	1895	600
M. JOSEPHINE DONEHUE, 2d year, 891 Bridge street	1900	600
GERTRUDE C. RING, 1st year, 11 Woodward avenue	1898	600
MARY G. COURTNEY, 1st year, 75 Chestnut street..	1904	600
ANNA T. JOYCE, temp., 22 Twelfth street		
ANNIE M. MAGUIRE, temp., 12 So. Walker street....		
MAUDE E. MOODY, temp., 25 Lane street, ...		

BILLINGS STREET SCHOOL.

ANNIE M. ROBBINS, Principal, 3d year, 62 Twelfth street	1895	\$ 650
ETTA FOYE, 2d year, 201 Market street	1901	600
ELIZABETH H. SEEDE, temp., 1st year, 85 Dover St.		

KINDERGARTENS.

AGAWAM STREET.

SARAH G. SPARKS, Principal, 59 Elm street	1894	\$ 500
ROSEMARY LENNON, 39 Carter street	1895	450

BARTLETT SCHOOL.

E. BELLE PERHAM, Principal, 90 Riverside street...	1893	500
EDITH A. ANDREWS, 77 Fort Hill avenue	1897	450

CHARLES STREET.

MABEL D. NICKERSON, Principal, 136 Chestnut street	1893	500
M. ETHEL BAKER, 290 East Merrimack street	1899	450

CHAPEL STREET.

MARIETTA G. GORMLEY, Principal, 22 Lyon street	1895	500
KATHERINE C. EARLEY, 17 Pleasant street	1896	450

DOVER STREET.

ELIZABETH A. WILSON, Principal, 15 South Canton street	1893	500
ELLA M. PENN, 262 London street	1901	450

FRANKLIN SCHOOL.

N. GRACE TAYLOR, Principal, 7 Ware street	1895	500
HORTENSE M. LAMERE, 6 West Eleventh street....	1899	450

LINCOLN STREET.

ELSIE M. CRAGIN, Principal, 114 South Walker street	1895	500
GERTRUDE A. ROBERTS, 74 Stevens street	1897	450

ROLL OF TEACHERS.

95

MOODY SCHOOL.

MARY C. WALKER, Principal, 100 Appleton street...	1893	500
ALICE F. SEETON, 158 Mammoth road	1901	450

MORRILL SCHOOL.

HELEN W. NOYES, Principal, 49 Nesmith street	1896	500
S. ALICE KNAPP, 336 East Merrimack street	1899	450

PAWTUCKET.

M. MARIETTA KING, Principal, 205 Stackpole street	1895	500
S. HORTENSE TABOR, 82 Riverside street	1896	450

PLAIN STREET.

EDITH A. HOWITT, Principal, 52 Myrtle street	1897	500
AGNES E. COBURN, 47 Twelfth street	1901	450

PINE STREET.

LOUIE I. SMITH, Principal, 11 Loring street	1895	500
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VARNUM SCHOOL.

NETTIE M. CONANT, Principal, 93 Vernon street ...	1892	500
CLARA M. EVERETT, 166 Third street	1896	450

SUPERVISOR OF KINDERGARTENS.

ANNA W. DEVEREAUX, Tel. 957, 9 Nesmith street..	1893	500
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MUSICAL DIRECTOR.

FREDERICK O. BLUNT, Tel. 1153-2, 409 Westford street	1898	1250
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ROLL OF TEACHERS.

ASSISTANT IN MUSIC.

JOSEPHINE C. COBURN, Tel. 947-12, 25 Fifth street	1903	700
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SUPERVISORS OF DRAWING.

EDMUND KETCHUM, 19 Paige street	1904	750
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OLIVE E. UNDERHILL, 117 Branch street	1887	750
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TEACHER OF SEWING.

IDA J. FLINT, 200 Liberty street	1880	800
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MILITARY INSTRUCTOR.

COLBY T. KITTREDGE, 14 Ralph street	1901	500
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TRAINING SCHOOL GRADUATES.

CLASS OF JUNE, 1903.

Alice H. Bacheller, 25 Nesmith street.
 Avis J. Coburn, 145 Beacon street.
 Mary H. Coburn, 145 Beacon street.
 Edith V. Cockerille, 210 School street.
 Bessie F. Davidson, 64 Warwick street.
 Rebecca A. Gardner, 75 Pine street.
 Anna F. Joyce, 22 Twelfth street.
 Annie L. Mahoney, 41 Butterfield street.
 Maude E. Moody, 25 Lane street.
 Mary G. Quinn, 28 Chapel street.
 M. Gertrude Seede, 85 Dover street.
 Lillian A. Strout, 111 So. Loring street.
 Mary E. Tobin, 40 Linden street.

CLASS OF JUNE, 1904.

Hannah M. Barrows, 19 Newhall street.
 Christine Cameron, 872 Mammoth road, Dracut.
 Marguerite Elvin, 258 Varnum avenue.
 Esther M. Greene, 179 Warwick street.
 Carrie E. Hale, 15 Robbins street.
 Lisbeth D. Mann, 237 Walker street.
 Alice E. Ramsey, 124 Third street.
 Elizabeth H. Seede, 85 Dover street.
 Etta M. Smith, 1110 Lawrence street.

CLASS OF JUNE, 1905.

Mary Cassidy, 44 B street.

Ellen F. Cull, 46 Tyler street.

Margaret L. Hagerty, 46 Tyler street.

Annie E. Irving, 119 West street.

Christine M. Kane, 723 Central street.

Edith B. Kelley, 15 Alder street.

Mabel A. Metcalf, 93 Vernon street.

Elizabeth Provencher, 376 Hildreth street.

Harriet B. Whitaker, Tyngsboro.

TEACHERS' CERTIFICATES.

Granted since January 1, 1902.

FIRST GRADE.

Wm. Hanson Howard, Dartmouth, '02, 40 Arlington street.
 Wm. A. Martin, Ottawa, '02, 153 High street.
 Michael A. Tighe, Boston College, '03, 31 Hovey avenue.
 Elmer Garfield Brennon, Dartmouth, '04, 71 Robbins street.
 Leroy F. Swift, Harvard, '05, 219 East Merrimack street.
 R. B. Walsh, Harvard, '05, 419 Andover street.
 Wm. W. Dennett, Harvard, '05, 55 Read street.
 John Ernest Barr, Bates, '05, 53 Beech street.
 Victor L. Jewett, Harvard, '05, 1263 Middlesex street.
 Leon R. Whitcomb, University of Vermont, '05, 102 So. Loring street.

SECOND GRADE.

Alice H. Batcheller, Vassar, '02, 25 Nesmith street.
 Susan G. Burbank, Boston University, '02, 130 Bowers street.
 Mary H. Coburn, Smith, '02, 145 Beacon street.
 Avis J. Coburn, Smith, '02, 145 Beacon street.
 Bessie F. Davidson, Boston University, '02, 64 Warwick street.
 Lucy M. Stevenson, Technology, '03, 45 Princeton street.
 Annie Louise Hall, Vassar, '03, 48 Wannalancit street.
 Margaret W. Hall, Vassar, '03, 48 Wannalancit street.
 Lisbeth D. Mann, Acadia University, 237 Walker street.
 Mabel A. Metcalf, Wellesley, '03, 93 Vernon street.
 Harriet B. Whitaker, Wellesley, '04, Tyngsboro.

FOURTH GRADE.

Mary I. Halloran, Normal School, '01, 546 East Merrimack street.
 Gertrude B. Crowley, Normal School, '01, 115 Fort Hill avenue.
 Julia M. Adams, Normal School, '02, Haverhill, Mass.
 Alda L. Armstrong, Normal School, '02, Littleton, N. H.
 Mina Guyton, Normal School, '02, 45 Fourth avenue.
 Helen S. Livingston, Normal, '05, 28 Robbins street.
 M. A. Harrison, Lowell Normal, '05, Alberene, Va.

SALARIES OF TEACHERS.

HIGH SCHOOL.

Head Master	\$ 3000
First Sub-Master	2500
Men Teachers	800 to 1800
Women Teachers, first year	650
Women Teachers, second year	700
Women Teachers, third year and thereafter	800 to 1000

GRAMMAR SCHOOLS.

Masters, (yearly increase, \$100)	\$1300 to 2000
Teachers	600
Teachers of Drawing	750 to 1250
Teachers of Music	700 to 1250
Teacher of Sewing	800

PRIMARY SCHOOLS.

Principals of three or more rooms	\$ 625
Principals of two rooms	625
Teachers	600

TRAINING SCHOOL.

Principal	\$2000
Three Assistants	900

KINDERGARTENS.

Principals	\$ 500
Assistants, first year	350
Assistants, after first year	450

TEMPORARY TEACHERS.

Men Teachers per day	\$ 3.00
Women Teachers	2.50
Kindergartners	\$1.25 to 1.75

TEXT BOOKS USED IN THE PUBLIC SCHOOLS.

PRIMARY SCHOOLS.

First Readers, Several Series	Davis's Stories of American History
Second Readers, Several Series	Carroll's Around the World, Book I
Advanced Second and Third Readers, Several Series	Monroe's Reading Chart
Franklin Primary Arithmetic	American Music Reader
Prince's Arithmetic by Grades	American Music Chart
Nichols' Graded Lessons in Number	Blaisdell's Child's Book of Health
	Heath's Vertical Writing Books

GRAMMAR SCHOOLS.

Third Readers, Several Series	Reed's Word Lessons
Fourth Readers, Several Series	The Mother Tongue, Books I and II
Fifth Readers, Several Series	Frye's Primary Geography
Scudder's Fables and Folk Stories	Frye's Common School Geography
De Foe's Robinson Crusoe	Eggleston's First Book in American History
Burrough's Birds and Bees	Scudder's History of the United States
Hawthorne's Wonder Book	Fiske's History of the United States
American Literature, Masterpieces	Thomas's History of the United States
Bradbury's Eaton's Arithmetic	Montgomery's Histories of the United States
Werner Arithmetic, Book III	Tappan's Our Country's Story
Carpenter's Geographical Readers	Guerber's Story of the Greeks
Carroll's Around the World, Book II	Guerber's Story of the English
Lewis's First Manual of Com- position	Worcester's and Webster's Dictionaries
Union Series of Physiologies	Werner's Mental Arithmetic
Wentworth's First Steps in Algebra	Heath's Vertical Writing Books
Worcester's Speller	American Music Readers
The Morse Speller	
The Rational Spelling Book	

HIGH SCHOOL.

Chemistry, Physics and Other Sciences.

Experimental Chemistry, Newell	Physics, Hoadley
Qualitative Analysis, Irish	Physiology Kellogg
A Text-book of Physics, Hall- Bergen	Physiology, Overton
Elements of Physics, Avery	Physiology, Blaisdell
Botany, Gray	Physiology, Foster and Shore
Geology, Le Conte	Physiology, Martin
Physics, Gilley	Physiology, Walker
Elements of Chemistry, Williams	Physiology, Colton
Herbarium, Wilson	Tarr's Physical Geography
Lessons in Astronomy, Young	Geology, Brigham

English.

Ancient Mariner, Coleridge	Iliad, Pope
Carlyle's Essay on Burns	Iliad, Bryant
Chaucer to Arnold, George	Ivanhoe, Scott
Conciliation with America, Burke	Julius Cæsar, Shakespeare
Composition and Rhetoric, Scott and Denney	Lessons in English, Buehler
Eliot's Silas Marner, Norris	Macbeth, Shakespeare
English Composition, Shaw	Marmion, Scott
Foundations, of Rhetoric, Hill	Merchant of Venice, Shakespeare
Hill's Principles of Rhetoric	Milton and Addison, Macaulay
Silas Marner, Eliot	Milton's Lyrics
Sir Roger de Coverly Papers, Addison	The Princess, Tennyson
Story of the Odyssey, Church	Vicar of Wakefield, Goldsmith
Tales from Shakespeare, Lamb	Introduction to English Literature, Pancoast

French.

Capi et sa Troupe	French Dictionary, Heath
College Plays, Bocher	French Grammar, Grandgent
Colomba, Merimee	French Grammar, Fraser and Squair
Le Cid, (Corneille)	French Grammar, Worman
Contes et Legendes, Guerber	French Lyrics, Bowen
Douze Contes Nouveaux, Fontaine	French Reader, Super
French Reader for Beginners, Kuhns	Exercises No. 1, Grandgent

La Famille de Germandre, Sand	French Syntax and Composition,
La Fontaine's Fables, Mme. Beck's	Bovet
Edition	Le Conscriit de 1813, Erckmann-
La Siège de Berlin	Chatrain
La Tâche du Petit Pierre	Le Curé de Tours, Balzac
Le Voyage de Monsieur Perrichon,	Methode Berlitz, Part I
Labiche	Pecheur d'Islande, Loti
French Composition, Grandgent	Readings from French History
Sight Reading, Rogers	Super
La Grammaire, Labiche	Selected Stories, Daudet
Scenes de la Revolution	L'Expédition de Bonaparte en
Francaise, Lamartine	Egypte, Thiers
Le Dix Septieme Siecle	French Commercial Reader, Pitman
Grammaire Francaise, Larive et	
Fleury, 2me An.	

German.

Höher als die Kirche, Clary	German Dictionary, Heath
German Composition, Fasnacht	Der Zerbrochne Krug, Joynes
Traumereien, Leander	Schiller's Dreissigjahrige, Krieg
Heise's L'Arrabiata	Schiller's Der Nefe Als Onkel
Harris' German Lessons	Joynes Meissuer's German
Wesselhoefts' German Composi-	Grammar
tion	Riehl's Der Fluchder Schönheit
Harris' German Composition	Gold's Tales from Hauff
Immensee, Storm's	Dippold's Scientific German
	Schiller's Jungfrau von Orleans

Greek.

Anabasis	Greek Lexicon, Liddell and Scott
Greek Composition, Higley	Greek Lexicon, White
Greek Composition, Woodruff	Greek Reader, Goodwin
Greek Grammar, Goodwin	Homer's Iliad, Seymour
Greek Lessons, White	Homer's Odyssey, Seymour

History.

Age of Pericles, Grant	Greek Civilization, Mahaffy
American History, Montgomery	History of England, Coman and
Ancient History, Myers	Kendall
English History, Montgomery	History of English People, Green

English History, Higginson and Channing	History of Rome, Allen
European History, Adams	Johnston's American History
Fiske's School Histories	Plutarch's Lives, Kaufman
General History, Myers	Source Book, Hart
Greek History, Oman	U. S. History, McMaster
Greek History, Botsford	U. S. History, Channing
Greek Tragedians, Church	U. S. History, Scudder

Latin.

Cæsar, Allen and Greenough	Latin Lexicon, White
Cicero, Allen and Greenough	Nepos, Barss
Gate to Cæsar, Collar	New Latin Composition
Latin Composition, Part I, Daniell	Ovid, Allen and Greenough
Latin Composition, Part II, Daniell	Sallust
Latin Composition, Collar	Virgil, Allen and Greenough
Latin, for Sight Reading, Tomlinson	Virgil, Brice
Latin Grammar, Allen and Greenough	Viri Romæ, Rolfe
	First Year Latin, Collar and Daniell

Mathematics.

Academic Algebra, Wells	Geometry, Wells
Arithmetic, Wentworth and Hill	Higher Algebra, Wells
Geometry, Plane and Solid, Wentworth	Surveying, Davies
	Trigonometry, Wentworth

Commercial.

Commercial Geography, Adams	Commercial Arithmetic, Williams and Rogers
Mental Arithmetic, Williams and Rogers	Commercial Law, White
Business Correspondence, Williams and Rogers	Bookkeeping and Business Practice, Williams and Rogers
Seventy Lessons in Spelling, Williams and Rogers	Shorthand, Gregg

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL FOR THE YEAR ENDING JUNE 30, 1905

SCHOOLS	LOCATION	Whole No. of Enrolled			No. of pupils belonging Dec., 1905			Whole No. of pupils on time books since Sept. 1, 1904			Average No. of pupils belonging to school			Average daily attendance			No. not rec'd from any other pub. school	Rec'd from other pub. schools of lower grade	Rec'd from other pub. schools of same grade	Sent to other public schools of higher grade	Per cent. of attendance	Number of class rooms in regular use	Number of seats or things in these rooms	Number of half days of school, counting each room as a "school"	
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total									
High	Kirk and Anne Sts.	451	511	962	464	535	999	451	511	962	427	457	884	386	444	830	83	254	0	152	0	96	34	959	12172
Bartlett (Gram)	Wannalancit St.	169	200	369	176	242	418	211	245	456	179	212	391	169	197	366	50	54	33	26	32	94	11	587	3949
PRIMARIES																									
Bartlett	Wannalancit St.	83	93	176	89	96	185	100	118	218	84	96	180	76	88	164	46	20	22	31	26	91	4	198	1436
Morrill	Adams and Common Sts.	56	51	107	66	47	113	72	63	135	31	53	84	28	47	75	58	0	15	25	9	90	3	140	1091
Cross St.	Cross St., near Mt. Vernon St.	86	60	146	69	40	109	99	67	166	75	54	129	69	50	119	53	3	17	30	21	92	4	195	1446
Totals for Primaries.		225	204	429	224	183	407	271	248	519	190	203	393	173	185	358	157	23	54	86	56	91	11	533	3973
Bulter (Gram). ..	Gorham St.	367	388	755	351	339	690	351	393	774	338	341	679	314	316	630	32	156	19	41	20	92	18	867	6469
PRIMARIES																									
Agawam St.	Cor. Agawam and Barrington Sts.	57	48	105	52	47	99	57	49	106	48	41	89	45	39	84	25	17	5	28	13	54	3	141	1080
Carter St.	Carter St.	114	92	206	105	80	185	121	94	215	100	81	181	91	69	160	54	0	9	37	13	88	5	280	1815
London St.	Cor. London and West Sts.	55	75	130	56	44	100	91	83	174	67	56	123	61	51	112	75	0	14	25	6	91	3	158	1095
Lyon St.	Cor. Central and Lyon Sts.	99	107	206	95	97	192	120	127	247	97	100	197	89	91	180	76	17	24	43	26	91	4	211	1428
Weed St.	Cor. Gorham and Weed Sts.	70	63	133	59	57	116	82	79	161	61	53	114	57	52	109	63	0	23	24	23	91	3	168	1083
Totals for Primaries.		425	385	810	366	325	691	471	432	903	373	331	704	343	302	645	293	34	80	157	73	92	18	958	6501

SUMMARY OF THE ANNUAL RETURNS OF PUBLIC SCHOOLS.—Continued.

Edson (Gram.)...	242	209	451	219	214	433	254	214	468	221	184	405	205	169	374	21	119	17	21	20	92	11	565	3971
PRIMARIES																								
Charles St., near Gorham St.	91	107	198	69	87	156	109	115	224	73	84	157	69	72	141	86	2	24	17	30	90	4	192	1463
Cor. Cottage and Chapel Sts.	56	58	113	62	56	118	62	64	126	48	48	96	44	43	87	26	8	13	15	16	90	3	157	1093
Cor. Summer and Favor Sts.	88	74	162	81	78	159	94	92	186	74	67	141	66	60	126	57	0	40	21	34	89	4	220	1452
Totals for Primaries.	234	239	473	212	221	433	265	271	536	195	199	394	179	175	354	169	10	77	53	80	89	11	569	3998
Green (Gram.) ...	275	272	547	232	249	481	279	293	572	210	229	439	194	214	408	124	83	25	23	30	93	11	573	3952
PRIMARIES																								
Cabot St.	62	58	120	61	33	94	73	62	135	41	36	77	37	32	69	84	0	15	0	8	90	3	168	1085
Cor. Cheever and Tucker Sts.	70	54	124	38	19	57	71	54	125	26	21	47	24	18	42	124	0	1	6	1	90	2	101	738
Cor. Kirk and Lee Sts.	59	41	100	48	28	76	73	100	125	49	30	79	46	29	75	23	8	34	23	24	96	2	116	726
Worthen St. ...	105	112	217	81	78	159	122	128	250	67	72	139	61	67	128	105	9	14	41	25	92	4	230	1440
Totals for Primaries.	296	265	561	228	158	386	341	294	635	183	159	342	168	146	314	336	17	64	70	58	92	11	615	3989
High'd (Gram.)...	352	414	766	369	394	763	367	436	803	325	383	708	303	357	660	60	148	33	62	44	93	18	810	6420
PRIMARIES																								
Dover St., near Grove St.	63	70	133	54	78	132	66	74	140	56	62	118	50	56	106	25	16	11	35	10	90	3	153	1083
Pine St.	49	44	93	44	37	81	37	32	109	48	42	90	44	37	81	77	14	18	25	3	91	3	168	1086
Franklin St.	48	76	171	80	72	152	121	106	227	75	72	154	58	20	63	54	20	62	35	40	90	4	194	1456
Powell St.	37	43	80	39	39	78	46	53	99	32	30	66	29	53	62	67	9	23	17	25	93	2	110	782
Totals for Primaries.	244	233	477	217	226	443	200	285	575	216	212	428	198	190	388	227	59	114	113	78	90	12	625	4357
A Lincoln (Gr.)	227	229	456	200	207	407	239	241	480	202	208	410	185	193	378	36	93	24	27	15	92	10	518	3630
PRIMARIES																								
Howard St.	102	101	203	71	77	148	111	111	222	79	85	164	73	75	148	31	1	28	37	34	91	4	208	1452
Plain St.	121	112	233	103	85	188	130	117	247	107	93	200	98	84	182	36	19	50	73	22	91	5	280	1810
Lincoln	52	53	105	50	41	91	58	54	112	48	43	91	41	37	78	85	22	5	0	4	86	2	112	726
Totals for Primaries.	275	266	541	224	203	427	299	282	581	234	221	455	212	196	408	152	42	83	110	60	90	11	600	3988

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS. — Continued.

SCHOOLS	LOCATION	Whole No. Enrolled			No. of pupils belonging Dec., 1905			Whole No. of pupils on time books since Sept. 1, 1904			Average No. of pupils belonging to school			Average daily attendance			No. not rec'd from any other public school	Rec'd from other pub. schools of lower grade	Rec'd from other pub. schools of same grade	Sent to other public schools of higher grade	Per cent. of attend-ance	Number of class rooms in regular use	Number of seats or sit-tings in these rooms	Number of half days of school, counting each room as a "school"		
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total													
Moody (Gram.) PRIMARIES	Cor. Rogers and High Sts.	228	201	429	224	171	395	238	207	445	212	181	393	197	167	364	27	85	16	46	11	92	9	458	3285	
	Fayette St.	42	37	79	51	46	97	48	47	95	34	29	63	31	28	59	55	1	16	8	13	93	2	96	716	
	High St., bet. Chestnut and Everett Sts.	36	35	71	26	18	44	26	20	46	28	20	48	33	25	58	26	11	17	16	-9	92	2	84	724	
	Oaklands.	26	18	44	26	20	46	28	20	48	24	18	42	22	16	38	14	4	10	4	10	2	89	1	54	863
	Cor. Pond and High Sts.	75	49	124	54	59	113	88	58	146	70	51	121	64	46	110	28	22	17	37	8	91	3	151	1092	
	Totals for Primaries ..	179	139	318	131	125	256	214	162	376	164	125	289	150	115	265	123	38	54	71	32	92	8	385	2895	
Pawtucket (Gr.) PRIMARY	Cor. Mammoth Road and Fourth Ave.	130	151	281	133	145	278	137	159	296	122	143	265	118	135	253	36	43	22	18	17	95	7	378	2465	
	Moody St., opp. Fourth Ave.	121	146	267	105	130	235	126	169	295	112	122	234	108	119	227	74	24	21	58	24	92	6	336	2184	
	Lawrence St.	160	127	287	136	119	255	164	137	301	129	101	230	119	101	220	25	48	14	12	13	95	9	398	3258	
	Cor. Ames and Lawrence St.	82	84	166	74	67	141	85	96	181	64	71	135	58	65	123	61	8	23	28	21	91	4	228	1444	
	Central St., opp. Hudson St.	84	91	175	74	75	150	99	96	195	79	86	165	73	78	151	49	10	20	31	7	91	4	211	1448	
	Charles, near Lawrence St.	108	93	201	92	99	191	120	111	231	89	74	163	81	66	147	39	3	30	23	24	91	4	204	1448	
Varum (Gram.) PRIMARIES	Totals for Primaries ..	274	268	542	240	242	482	304	303	607	232	231	463	212	209	421	149	21	73	82	52	91	12	643	4340	
	Myrtle and Beech Sts., Centralville.	405	401	806	358	391	749	444	441	885	373	391	764	353	363	716	85	161	30	59	21	93	18	986	6365	
	Billings St., near Hildreth St.	66	75	141	64	61	125	75	86	161	56	61	117	52	54	106	52	0	25	31	20	91	3	162	1093	
	Lakewood Av., bet. West St. and Lilley Av.	221	201	422	157	150	307	233	217	450	147	125	272	132	110	242	220	0	27	40	47	88	6	336	2172	
	West Sixth St.	83	89	172	77	86	163	110	116	226	71	74	145	65	66	131	52	3	19	40	26	90	4	225	1452	
	Tenth St., cor. Varum St.	98	96	194	80	70	150	111	107	218	76	78	154	70	71	141	59	16	26	67	19	92	4	212	1452	
Totals for Primaries ..		468	461	929	378	367	745	529	526	1055	350	338	688	319	301	620	383	19	137	178	112	90	17	935	6169	

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS. — Continued.

MIXED SCHOOLS		53	45	98	42	36	78	60	52	112	44	40	84	41	36	77	20	0	14	13	6	92	8	152	1089		
Middlesex Vil'ge		17	17	34	14	10	24	17	17	34	14	11	25	13	10	23	34	0	0	0	8	95	1	56	366		
Lexington Ave.		70	62	132	56	46	102	77	69	116	58	51	109	54	46	100	54	0	14	13	14	92	4	208	1455		
Totals for Mixed Schools																											
KINDERGARTENS																											
Agawam St.		25	34	59	15	25	40	25	34	59	16	20	36	14	18	32	59	0	0	6	4	84	1	40	180		
Varnum School, Centralville		40	33	73	24	22	46	41	33	74	27	20	47	23	16	39	74	0	1	2	1	80	1	60	181		
Cor. Chapel and Keene Sts.		31	29	60	22	23	45	31	29	60	18	17	35	16	14	30	60	0	0	18	3	86	1	50	180		
Dover St., bet. Branch and Grove Sts.		30	19	49	18	15	33	31	20	51	21	13	34	18	10	28	49	0	2	21	2	82	1	40	178		
Bartlett School Bldg., Wannalancit St.		22	21	43	16	14	30	26	23	49	13	18	31	10	15	25	27	0	6	20	0	81	1	40	180		
Franklin		38	27	65	24	15	39	39	30	69	22	16	38	16	13	29	67	0	2	20	2	76	1	46	181		
A. Lincoln		37	43	80	31	17	48	36	43	79	19	21	40	15	16	31	79	0	1	20	0	76	1	50	184		
Moody		40	36	76	24	14	38	42	37	79	24	19	43	15	14	29	77	0	2	21	2	68	1	59	182		
Pawtucket		33	18	51	25	11	36	33	18	51	18	11	29	15	9	24	51	0	2	1	3	82	1	31	183		
Charles St., Cor. Chapel St.		28	23	51	11	13	24	30	23	53	13	14	27	10	9	19	61	0	2	1	0	70	1	40	182		
Adams and Common Sts.		38	28	66	20	8	28	39	28	67	15	8	23	13	6	19	65	0	1	19	0	87	1	38	176		
Cor. Pine and Gibson Sts.		18	13	31	11	7	18	18	13	31	10	9	19	8	7	15	31	0	0	15	0	81	1	32	181		
Cor. Plain and Powell Sts.		23	23	46	11	18	29	23	23	46	17	16	33	14	11	25	46	0	0	20	0	76	1	45	180		
Plain St.																											
Totals for Kindergartens		403	347	750	252	202	454	414	354	768	233	202	435	187	158	345	736	0	17	204	17	79	13	571	2343		
SUMMARY.—High School																											
Grammar Schools																											
Primary Schools																											
Mixed Schools																											
Totals, not including Kindergartens																											
Totals, including Kindergartens																											

CITY OF LOWELL

MASSACHUSETTS



City Auditor's Seventieth Annual Report

OF THE

Receipts and Expenditures

FOR THE

Financial Year ending
December 31, 1905,
together with the

TREASURER'S ACCOUNT

AND THE

Account of the Commissioners of the
Sinking Funds.



Lowell, Massachusetts
December 31, 1905

To the Honorable, the City Council.

GENTLEMEN :

In conformity with the requirements of the ordinances of the city, I herewith present the annual report of the receipts and expenditures of the City of Lowell for the year beginning January 1, 1905, and ending December 31, 1905; exhibiting the same as classified in the several department accounts, also a statement of the City Debt and Debts due the City, together with other information of interest to officials and tax-payers.

Respectfully submitted,

A handwritten signature in cursive script, reading "East Paige". The signature is written in dark ink and is positioned above the printed title "AUDITOR".

AUDITOR

BALANCE SHEET OF ASSETS AND LIABILITIES DECEMBER 31, 1905

ASSETS.		LIABILITIES	
Ordinary City Debt Sinking Fund.....	\$ 265,908 33	Ordinary City Debt	\$ 2,409,908 10
Water Debt Sinking Fund.....	437,885 13	Water Debt	1,145,700 00
Taxes, Due	581,897 32		
Sidewalk Assessment	7,441 40	Total Gross City Debt	3,555,608 10
Sewer Assessment	9,134 41	Temporary Loans	800,000 00
Watering Street Assessment	8,473 49	Balances Unexpended.....	100,507 34
Cash in Treasury	392,188 93		
Total Available Assets	1,702,929 01	Total Liabilities	4,456,115 44
Real and Personal Property belonging to the Water Works.....	4,375,888 67	Surplus of Assets	5,727,562 69
Other Real Estate.....	3,625,900 00		
Other Personal Property.....	478,960 45	Grand Total of Liabilities and Surplus	10,183,678 13
Total Unavailable Assets	8,480,749 12		
Total Available Assets.....	1,702,929 01		
Grand Total of Available and Unavailable Assets	10,183,678 13		

City Debt

Ordinary City Debt, Jan. 1, 1905.....	\$2,317,380.00	
Borrowed during the year 1905.....	360,150.00	
Total	<u>2,677,530.00</u>	
Paid during the year 1905	<u>267,621.90</u>	
Total Ordinary City Debt, Dec. 31, 1905.....		\$2,409,908.10
Water Debt, Jan. 1, 1905	1,162,300.00	
Paid during the year 1905	<u>16,600.00</u>	
Total Water Debt, Dec. 31, 1905.....		<u>1,145,700.00</u>
Total City Debt, Dec. 31, 1905.....		<u>\$3 555,608.10</u>
Ordinary City Debt, Dec. 31, 1905	2,409,908.10	
Sinking Funds for payment of same.....	<u>265,908.33</u>	
Net Ordinary City Debt, Dec. 31, 1905		<u>2,143,999.77</u>
Water Debt, Dec. 31, 1905	1,145,700.00	
Sinking Funds for payment of same.....	<u>437,885.13</u>	
Net Water Debt, Dec. 31, 1905		<u>707,814.87</u>
Total Net Debt, Dec. 31, 1905		<u>\$2,851,814.64</u>
Total Net Debt, Dec. 31, 1905	2,851,814.64	
Total Net Debt, Dec. 31, 1904	2,829,232.38	
Increase in City Debt during 1905	<u>\$ 22,582.26</u>	
Net Ordinary City Debt, Dec. 31, 1905	2,143,999.77	
Net Ordinary City Debt, Dec. 31, 1904	<u>2,073,362.60</u>	
Increase in Net Ordinary Debt.....		<u>\$ 70,637.17</u>

Limit of Indebtedness

Total City Debt, Dec. 31, 1905.....	\$3,555,608.10	
Deduct Water Loans.....	\$1,145,700.00	
Deduct Exemptions by Legislature	800,000.00	1,945,700.00
City Debt as it relates to limit of indebted- ness.....		1,609,908.10
Limit of Municipal Debt for 1906, 2½% of average valuation for last three years, \$71,532,689.00	1,788,317.23	
City Debt which relates to limit Dec. 31, 1905	1,609,908.10	
Distance from limit Dec. 31, 1905	178,409.13	
Distance from limit Dec. 31, 1904	272,658.40	
Decrease of distance from limit.....		94,249.27

Sinking Funds

Full value of all sinking funds, Jan. 1, 1906	\$703,793.46	
Full value of all sinkidg funds, Jan. 1, 1905	650,447.62	
Increase during the year 1905		53,345.84
Value of water loan sinking funds Jan. 1, 1906	437,885.13	
Value of water loan sinking funds Jan. 1, 1905.....	406,430.22	
Increase during the year		31,454.91
Value of all other sinking funds Jan. 1, 1906	265,908.33	
Value of all other sinking fnnds Jan. 1, 1905	244,017.40	
Increase during the year		21,890.93
Total increase as above		53,345.84

Receipts

The whole amount of money received into
the City Treasury from all sources from
Jan. 1, 1905 to Dec. 31, 1905, was

\$3,875,355.74

Of this amount there was received on
account of —

General Treasury Fund — Taxes.....	\$1,495,692.33
“ “ “ Loans.....	1,660,150.00
“ “ “ Revenue ...	467,037.43
City Cemeteries.....	.75
Engineering	9,024.06
Fire Department Sundries	9.53
Health Office Sundries	10.01
Health Yard — Labor.....	817.75
Health — Small Pox	.49
Law — Sundries	7.50
Parks — Sundries.....	227.30
Lowell City Hospital — Provisions	8,121.38
Paupers, Out-door Relief — General Sundries	218.61
Police — Salaries and Labor	2,203.75
Police — Sundries.....	2.50
Public Buildings—Carpenters, Painters, Etc.	940.25
Public Buildings — Electric Power	110.08
“ “ Materials	360.75
Schools	30.00
School Houses	3,461.30
Sewer Maintenance — Labor.....	504.00
“ “ Sundries	3,059.30
Sewer Construction.....	10.00
Military Aid	8.00
Soldiers' Relief.....	4.00
State Aid	26.00
Streets — Yard Labor	307.25
Streets — Labor	80.67
Streets — Sundries	1,962.13
Watering Streets	1,384.00
Water Works.....	202,434.62
City Debt	16,600.00
Execution of Court — Geo. W. Marshall	550.00

\$3,875,355.74

Expenditures

The whole amount expended and ordered
to be paid from the Treasury from Jan.
1, 1905 to Dec. 31, 1905, was

\$3,738,502.84

The expenditures were charged to the fol-
lowing appropriations or accounts —

Abatement of Taxes.....	\$ 419.16
Assessors' Salaries	12,080.37
" Sundries	2,061.84
Auditors' Salaries.....	3,516.00
" Sundries	674.00
Care of City Hall — Labor.....	5,294.50
" " Police Officer	1,003.75
" " Sundries	895.59
City Cemeteries	8,999.60
City Clerk — Salaries	4,628.00
" " Sundries.....	1,178.27
City Treasurer — Salaries	7,322.00
" " Sundries.....	3,783.85
City Sealer — Salary	350.00
" " Sundries	64.24
City Weigher, Salary	800.00
" " Sundries	16.63
City Messenger — Salary	1,200.00
" " Sundries	399.70
" " Lighting City Hall and Memorial Building	1,426.42
Clerk of Committees — Salary	1,200.00
" " Sundries	187.93
Clerk of Common Council	300.00
Elections	12,956.69
Engineering	16,247.42
Fire Dept. — Salaries and Labor.....	110,803.83
" " Sundries	25,704.97
Fish Warden.....	40.00
Health Office — Salaries and Labor.....	9,284.75
" " Sundries	2,206.21
Health Yard — Labor.....	29,968.36
" " Sundries	6,950.99
Fire Dept—Repairs No. 4 and 6 Engines	3,150.00
" Repairs Steamer 3	1,924.00
" Underground Wires	342.65

Expenditures—Continued

Health—Small Pox	3,297.08
Heating City Hall and Memorial Building—Labor	2,959.00
Heating City Hall and Memorial Building—Fuel	4,299.43
Heating City Hall and Memorial Building—Sundries	595.34
Huntington Hall	625.00
Rifle Range.....	699.16
Incidentals.....	3,254.94
Insurance	2,366.90
Inspector of Milk and Vinegar—Salaries	2,202.00
“ “ “ Sundries	165.59
Inspector of Animals and Provisions ...	500.00
Inspector of Wires —Salaries	2,224.00
“ “ “ Sundries	450.98
Law — Salaries	4,824.00
“ Sundries.....	1,246.44
Library	13,000.00
Lighting Streets	99,973.64
“ Public Buildings	31.77
“ Sundries	1,064.45
Liquor Licenses	43,524.75
Mayor — Salaries	4,200.00
“ Sundries	318.72
Parks — Salaries and Labor	8,999.92
“ Sundries	3,771.28
“ Care of Trees.....	999.97
“ Moths	500.00
Lowell City Hospital —Salaries	2,700.00
“ “ Labor	13,281.38
“ “ Provisions	30,957.33
“ “ Sundries	21,334.40
Paupers, Out-door Relief —Salaries	3,785.00
“ “ “ Office Sundries	597.37
Paupers, Out-door Relief — General Sundries	44,761.15
Police—Salaries Police Board and Clerk	5,000.00
“ Salaries and Labor	132,884.39
“ Sundries	6,090.23
“ Underground Wires.....	82.00

Expenditures—Continued

Public Buildings — Salaries	2,736.00
“ “ Janitor, Police Station	912.50
“ “ Assistant Janitor, Police Station	477.00
Public Buildings — Janitor, Memorial Hall	702.00
Public Buildings — Carpenters, Painters, etc.	12,676.71
Public Buildings — Board of Horses ...	1,295.87
“ “ Electric Power	366.39
“ “ Work not done by Department	6,087.31
Public Buildings — Materials	4,746.37
“ “ Painting City Hall	999.91
“ “ Repairing Palmer Street Engine House	1,000.00
City Farm Repairs — 12 Double Windows hung in Female Hospital	240.00
City Farm Repairs — 16 New Windows in Male Dining Room	160.00
City Farm Repairs — New Sheathing done from Barn Yard to Hospital...	10.00
City Farm Repairs — New Floor in Cow Stable	300.00
City Farm Repairs — Refrigerator repairs	250.00
“ “ 2 New Doors	20.00
“ “ Electric Wiring ...	250.00
“ “ Screens for Hospital	115.00
“ “ Taking Grating from Female Hospital	100.00
Registrars of Voters — Salaries	4,149.00
“ “ Sundries	1,375.25
Schools	309,258.84
School Houses	73,716.11
Middlesex Village School Bell	192.12
Sewer Maintenance — Salaries	2,939.00
“ “ Labor	12,346.62
“ “ Sundries	10,880.78
“ Construction	99,466.37
State Aid — Salaries and Sundries	2,045.00

Expenditures—Continued

Military Aid	3,170.00
Soldier's Relief.....	9,988.64
State Aid	15,628.50
Streets—Salaries.....	4,000.00
“ Yard Labor.....	10,829.84
“ Labor	121,657.58
New Sidewalks.....	4,475.60
Sidewalk Repairs.....	3,999.39
Streets—Sundries	47,605.95
Supply—Salaries and Labor	5,429.00
“ Sundries	874.12
Watering Streets—Labor	4,999.11
“ “ Sundries	11,091.63
Water Works	189,478.12
City Debt	284,221.90
Interest	130,544.35
Sinking Funds	32,300.00
State Supervisors	424.00
Temporary Loans.....	1,300,000.00
Edson Cemetery Annex	305.14
Ennell Street School	23,275.98
Athletic Apparatus on North and South Commons	201.91
Memorial Day—Spanish War Veterans	200.00
“ “ G. A. R.....	1,000.00
Paving, Painting and Repairing Central- ville Bridge	10,999.58
Fourth of July Observance, 1905	3,075.43
Macadamizing a portion of Stackpole Street	3,497.59
Macadamizing Durant Street.....	5,499.95
“ Willow Street.....	1,500.00
Claims for Damages, Injuries, etc.	750.00
Municipal Band Concerts	680.00
Lowell Textile School.....	8,000.00
Execution of Court in favor of Geo. W. Marshall.....	750.00
Claim of Vital Robert	25.00
New Coping at Pawtucket School	1,500.00
New Boiler at Butler School.....	1,199.97

Expenditures—Continued

New Boiler at Morrill School	800.00	
“ “ Kirk Street School	500.00	
Printing Municipal Register	216.40	
Purchase of Gormley Estate	5,200.00	
Claim of Frances M. Talbot.....	50.00	
County Tax..	76,264.33	
Purchase of Lang Land	2,200.00	
State Tax	97,604.73	
State Highway Tax	115.15	
National Bank Tax	12,911.93	
West Tenth Street Extension	900.00	
Execution of Court — Estate of Edward Quinn	3,111.29	
Execution of Court — M. V. Connors ...	687.25	
		3,738,502.84

APPROPRIATIONS

	ANNUAL	ADDITIONAL	TOTAL
Assessors — Salaries	\$ 12,535.00	\$	\$ 12,535.00
“ Sundries	1,648.00	454.63	2,102.63
Auditor — Salaries	3,516.00		3,516.00
“ Sundries.....	441.00	233.00	674.00
Care of City Hall — Labor	5,294.50		5,294.50
“ “ Police Officer.....	1,003.75		1,003.75
“ “ Sundries	900.00		900.00
City Cemeteries.....	9,000.00		9,000.00
City Clerk — Salaries	4,628.00		4,628.00
“ Sundries.....	1,063.00	115.27	1,178.27
City Treasurer — Salaries	7,340.00		7,340.00
“ Sundries.....	4,100.00		4,100.00
City Sealer — Salary.....	350.00		350.00
“ Sundries	66.00		66.00
City Weigher — Salary	800.00		800.00
“ Sundries	18.00		18.00
City Messenger — Salary.....	1200.00		1200.00
“ Sundries.....	400.00		400.00
“ Lighting City Hall and Memorial Building	1,550.00		1,550.00
Clerk of Committees — Salary	1,200.00		1,200.00
“ “ Sundries	200.00		200.00
Clerk of Common Council	300.00		300.00
Elections	13,000.00		13,000.00
Engineering	7,300.00		7,300.00
Fire Dept. — Salaries and Labor	111,338.00		111,338.00
“ Sundries.....	24,450.00	1,245.44	25,695.44
Fish Warden	40.00		40.00
Pound Keeper	5.00		5.00
Health Office — Salaries and Labor.....	9,135.00	149.75	9,284.75
“ Sundries	2,321.00		2,321.00
Health Yard — Labor.....	28,637.00	513.61	29,150.61
“ Sundries	6,098.00	852.99	6,950.99
Heating City Hall and Memorial Building — Labor.....	3,000.00		3,000.00
Heating City Hall and Memorial Building — Fuel	4,300.00		4,300.00
Heating City Hall and Memorial Building — Sundries	600.00		600.00

Appropriations—Continued

	ANNUAL	ADDITIONAL	TOTAL
Huntington Hall	750.00		750.00
Rifle Range	700.00		700.00
Incidentals.....	2,800.00	454.94	3,254.94
Insurance	2,461.64		2,461.64
Inspector of Milk and Vinegar—Salaries	2,205.25		2,205.25
“ “ “ Sundries	150.00	25.00	175.00
Inspector of Animals and Provisions ...	500.00		500.00
Inspector of Wires — Salaries	2,226.00		2,226.00
“ “ “ Sundries.....	402.00	48.98	450.98
Law — Salaries.....	4,824.00		4,824.00
“ Sundries	714.00	524.94	1,238.94
Library	13,000.00		13,000.00
Lighting Streets	100,195.00		100,195.00
“ Public Buildings	21.00	10.77	31.77
“ Sundries	1,154.00		1,154.00
Liquor Licenses	43,000.00	524.75	43,524.75
Mayor — Salaries.....	4,200.00		4,200.00
“ Sundries	400.00		400.00
Parks — Salaries and Labor	9,000.00		9,000.00
“ Sundries.....	3,544.00		3,544.00
Lowell City Hospital and Almshouse — Salaries	2,700.00		2,700.00
Lowell City Hospital and Almshouse — Labor	10,000.00	3,281.38	13,281.38
Lowell City Hospital and Almshouse — Grain, Groceries and Provisions ...	23,000.00		23,000.00
Lowell City Hospital and Almshouse — Sundries.....	18,800.00	2,534.40	21,334.40
Paupers Out-door Relief — Salaries.....	3,785.00		3,785.00
“ “ “ Office Sun- dries and Transportation	700.00		700.00
Paupers Out-Door Relief — General Sundries.....	39,048.00	5,494.54	44,542.54
Police—Salaries Police Board and Clerk	5,000.00		5,000.00
“ Salaries and Labor	133,149.91		133,149.91
“ Sundries	6,000.00	87.73	6,087.73
Public Buildings — Salaries	2,736.00		2,736.00
“ “ “ Labor, Janitor Police Station	912.50		912.50
Public Buildings — Labor, Assistant Janitor Police Station	477.00		477.00

Appropriations—Continued

	ANNUAL	ADDITIONAL	TOTAL
Public Buildings — Labor, Janitor			
Memorial Building	702.00		702.00
Public Buildings — Labor, Carpenters,			
Painters, Etc.	8,239.00	3,502.47	10,741.47
Public Buildings — Board of Horses ...	1,305.00		1,305.00
“ “ Sundries, Electric			
Power at Shop	254.00	2.31	256.31
Public Buildings — Sundries, Bills for			
Work not done by Department.....	4,500.00	1,587.31	6,087.31
Public Buildings — Sundries, Bills for			
Materials	3,800.00	1,125.95	4,925.95
Public Buildings — Sundries, Repairing			
Palmer Street Engine House.....	1,000.00		1,000.00
Public Buildings — Sundries, Painting			
City Hall	1,000.00		1,000.00
Registrars of Voters—Salaries and Labor	3,850.00	299.00	4,149.00
“ “ Sundries	700.00	675.25	1,375.25
Schools	197,000.00	112,210.84	309,210.84
School Houses	62,000.00	8,254.81	70,254.81
Sewer Maintenance — Salaries	2,939.00		2,939.00
“ “ Labor.....	12,000.00		12,000.00
“ “ Sundries	8,000.00		8,000.00
State Aid — Salaries and Sundries	2,020.00	25.00	2,045.00
Military Aid	4,000.00		4,000.00
Soldiers' Relief.....	9,000.00	984.64	9,984.64
State Aid	15,000.00	602.50	15,602.50
Streets — Salaries.....	4,000.00		4,000.00
“ Yard Labor	11,000.00		11,000.00
“ Labor on Streets and Boulevard	100,000.00	27,500.00	127,500.00
“ Sidewalk Repairs	4,000.00		4,000.00
“ Sundries	47,000.00		47,000.00
“ New Sidewalks	7,500.00		7,500.00
Supply — Salaries.....	5,444.58		5,444.58
“ Sundries	875.00		875.00
Watering Streets — Labor	5,000.00		5,000.00
“ “ Sundries.....	10,500.00		10,500.00
State Supervisors		432.00	432.00
Fire Dept.—Repairs Nos. 4 and 6 Engines	3,200.00		3,200.00
Health — Small Pox.....		3,297.08	3,297.08
Parks — Care of Trees.....	1,000.00		1,000.00

Appropriations—Continued

	ANNUAL	ADDITIONAL	TOTAL
City Farm Repairs :			
12 Double Windows hung in Female Hospital	240.00		240.00
16 New Windows in Male Dining Room	160.00		160.00
New Sheathing Door Barn Yard to Hospital Yard	10.00		10.00
New Floor in Cow Stable	300.00		300.00
Refrigerator Repairs	250.00		250.00
Two New Doors	20.00		20.00
Electric Wiring	250.00		250.00
Screens for Hospital.....	115.00		115.00
Taking Grating from Female Hospital.....	100.00		100.00
City Debt	267,621.90		267,621.90
Interest	134,500.00		134,500.00
Sinking Funds	32,300.00		32,300.00
School Construction		100,000.00	100,000.00
Ennell Street School		60,000.00	60,000.00
Athletic Apparatus on North and South Commons		500.00	500.00
Memorial Day—Spanish War Veterans		200.00	200.00
“ “ G. A. R.		1,000.00	1,000.00
Paving, Painting, Repairing Central Bridge		11,000.00	11,000.00
Fourth of July Observance, 1905		3,076.00	3,076.00
Macadamizing a portion of Stackpole St.		3,500.00	3,500.00
“ Durant St.		5,500.00	5,500.00
“ Willow St.....		1,500.00	1,500.00
Claims for Damages, Injuries, etc.		750.00	750.00
Municipal Band Concerts		700.00	700.00
Building		54,000.00	54,000.00
Lowell Textile School.....		8,000.00	8,000.00
Execution of Court—Geo. W. Marshall		200.00	200.00
Claim of Vital Robert.....		25.00	25.00
New Coping at Pawtucket School		1,500.00	1,500.00
New Boiler at Butler School		1,200.00	1,200.00
“ “ Morrill “		800.00	800.00
“ “ Kirk St. “		500.00	500.00
Printing Municipal Registers.....		225.00	225.00
Claim of Frances M. Talbot		50.00	50.00

Appropriations—Continued

	ANNUAL	ADDITIONAL	TOTAL
Purchase of Gormley Estate		5,200.00	5,200.00
County Tax		76,264.33	76,264.33
Purchase of Lang Land		2,200.00	2,200.00
Extension of Ina St.		850.00	850.00
State Tax		97,604.73	97,604.73
State Highway Tax		115.15	115.15
National Bank Tax		12,625.97	12,625.97
West Tenth St. Extension.....		900.00	900.00
Execution of Court — Est. Edward Quinn		3,111.29	3,111.29
Execution of Court — M. V. Connors...		687.25	687.25
Parks, Suppression of Moths.....		1,000.00	1,000.00
	<u>\$1,679,028.03</u>	<u>\$631,836.00</u>	<u>\$2,310,864.03</u>



AUDITOR'S REPORT

APPROPRIATIONS AND EXPENDITURES

ASSESSORS' DEPT.

Salaries		
Appropriation	12,535.00	
		<u>12,535.00</u>
Expended		
For Principal Assessors :		
Abel Wheeler	2,250.00	
John P. Mahoney.....	2,250.00	
C. Arthur Abbott.....	2,250.00	
		<u>6,750.00</u>
For Assistant Assessors :		
M. Bourdon	159.00	
R. Charlton.....	159.00	
T. F. Garvey.....	159.00	
E. T. Goward	159.00	
J. F. Meehan.....	159.00	
C. Riley	159.00	
		<u>954.00</u>
For Clerks :		
Stephen J. Kirby	828.36	
William J. Reardon.....	1,393.01	
Charles C. Hartwell	336.25	
George E. Owen	330.00	
Frank B. Peabody.....	327.50	
Andrew Liddell	305.00	
Hazen G. Pillsbury.....	305.00	
Joseph A. Meehan	276.25	
Francis T. Jantzen	190.00	
		<u>4,291.37</u>
For Interpreters :		
W. S. Smith	10.00	
Y. Savithes.....	75.00	
		<u>85.00</u>
		<u>12,080.37</u>
Transferred to General Treasury Fund		454.63
		<u>12,535.00</u>

ASSESSORS' DEPT.—Continued.

Sundries

Appropriation	1,648.00	
Additional Appropriation	454.63	
		<u>2,102.63</u>

Expended

For Blank Books, Stationery, Printing, etc.:		
Thomas J. Bromilow	9.00	
Courier-Citizen Co.	17.50	
Dumas & Co.....	746.00	
H. C. Kittredge	2.25	
Lawler Printing Co.....	1,042.40	
Libby Printing Co.	21.25	
Newton Graphic Publishing Co.	1.25	
G. C. Prince & Son	70.04	
Sampson, Murdock Co.	12.00	
The Review and Record Co.....	5.00	
		<u>1,926.69</u>
For Sundries :		
Lowell Bill Posting Co.	4.00	
John P. Mahoney.....	6.00	
N. E. Tel. & Tel. Co.....	.15	
J. H. Sparks	50.00	
Horace J. Stevens	75.00	
		<u>135.15</u>
		<u>2,061.84</u>
Transferred to General Treasury Fund		40.79
		<u>2,102.63</u>

AUDITOR'S DEPT.

Salaries

Appropriation	3,516.00	
		<u>3,516.00</u>

Expended

David Chase, Auditor.....	634.52	
Charles D. Paige, Auditor	896.42	
James T. Dunfey, Acting Auditor	249.56	
James T. Dunfey, Clerk.....	882.00	
Clinton P. Tuttle, Clerk.....	853.50	
		<u>3,516.00</u>

Sundries

Appropriation	441.00	
Additional Appropriation	233.00	
		<u>674.00</u>

Expended

For Blank Books, Stationery, Printing, and Miscellaneous :

Thomas J. Bromilow.....	4.75	
Buckland Printing Co.....	298.50	
Butterfield Printing Co.	113.86	
Carter's Ink Co.	.75	
Courier-Citizen Co.	15.00	
Daily Mail Co.	6.00	
Dumas & Co.....	131.00	
Harry C. Kittredge	4.00	
Thomas H. Lawler	12.00	
G. C. Prince & Son	26.45	
Sampson, Murdock Co.	3.00	
F. A. M. Tobin	31.75	
N. M. Wood.....	.70	
American Express Co.	.35	
Post Office Department	13.88	
J. H. Sparks	9.00	
J. W. Stewart	2.15	
W. U. Tel. Co.	.86	
		<u>674.00</u>

CITY CLERK'S DEPT.

Salaries

Appropriation	4,628.00	
		<u>4,628.00</u>

Expended

Girard P. Dadman, City Clerk	1,800.00	
William P. McCarthy, Assistant City Clerk..	1,500.00	
Belle C. Hill, Clerk.....	728.00	
Georgia T. Story, Clerk	600.00	
		<u>4,628.00</u>

Sundries

Appropriation	1,063.00	
Additional Appropriation	115.27	
		<u>1,178.27</u>

Expended

For Stationery, Printing, Typewriting, etc.:

Baker Printing Co.	5.50
Buckland Printing Co.	10.50
Butterfield Printing Co.	28.25
Carter's Ink Co.....	2.25
Courier-Citizen Co.	32.00
Girard P. Dadman	53.55
Daily Mail Co.	4.00
Helen A. Dimon	9.00
Dumas & Co.....	65.40
C. F. Hatch & Co.....	1.50
H. C. Kittredge	1.00
Lawler Printing Co.....	26.75
Thomas H. Lawler	12.25
Libby Printing Co.....	5.25
Lowell Sun	7.75
Henry M. Meek Publishing Co.....	28.50
G. C. Prince & Son	20.05
Charles E. Robinson	31.50

CITY CLERK'S. DEPT.—Continued

Sundries — Continued:

Smith Premier Typewriter Co.	10.00
Sampson, Murdock Co.	6.00
F. A. M. Tobin	4.95
Union Printing Co.	69.00

434.95

Reporting Births — Enumerators :

Charles F. Going	17.10
Thomas J. Johnson	19.10
Charles F. Kidder	10.20
C. Burton Kendall	26.20
Joseph Lavalley	54.20
J. E. McCormick	15.60
Frank B. Peabody	16.20
James Phillips.....	2.50
Walter S. Smith	28.50
William R. Yeoman	18.00

207.60

Reporting Births —

Sundry Persons, Physicians, Nurses, Etc.

484.00

Sundries—

American Express Co.	12.21
Lowell Bill Posting Co.	6.00
W. A. Mack & Co.	25.00
Man. & Con. Express Co.	2.45
N. E. Tel. & Tel. Co.....	2.26
N. Y. & Boston Des. Express Co.	.80
J. H. Sparks	3.00

51.72

1,178.27

CITY TREASURER'S DEPT.

Salaries

Appropriation ..	7,340.00	7,340.00
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Expended

Andrew G. Stiles, City Treasurer.....	2,700.00	
Joseph Farrell, Clerk	1,500.00	
Charles C. Wilson, Clerk.....	954.00	
James S. O'Sullivan "	522.00	
Hector J. H. Lavallee, Clerk	318.00	
Minnie Freeman "	624.00	
Kittie Miskella "	624.00	
Jean McIntyre "	50.00	
Maud Macpherson "	30.00	
		7,322.00
Transferred to General Treasury Fund		18.00
		7,340.00

Sundries

Appropriation ..	4,100.00	4,100.00
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Expended

For Books, Stationery, Printing, etc.:

Banker and Tradesman	5.00
Boston News Bureau.....	12.00
Buckland Printing Co.	224.50
Courier-Citizen Co.	336.00
Dumas & Co.	135.00
C. F. Hatch & Co.	3.50
H. C. Kittredge	1.25
Thomas H. Lawler	43.05
Lowell Post Office	212.00
Libby Printing Co.	26.00
Lepine & Co.	208.00
Lowell Daily Mail	449.00
Lowell Sun	315.00
G. C. Prince & Son	58.70

CITY TREASURER'S DEPT.—Continued

Sundries — Continued:

Riley & Sanborn	1.20	
Charles E. Robinson	21.50	
Sampson, Murdock Co., ...	6.00	
F. A. M. Tobin	76.00	
A. G. Thompson, P. M.	424.00	
		2,557.70

For Writing and Distributing Tax Bills:

R. Charlton	62.50	
O. J. David	62.50	
E. Gerrish	50.00	
T. Johnson	62.50	
F. Keefe	57.50	
J. E. McCormick	57.50	
J. Meehan	57.50	
T. Rourke	57.50	
J. Watson	62.50	
		530.00

For Serving Warrants:

Daniel Emery	72.00	
Enoch Gerrish	387.00	
Charles C. Hartwell	4.00	
John McManus	33.50	
		496.50

For Sundries:

American Express Co.	.60	
J. E. Buerk	1.80	
Carroll Bros.	52.00	
P. F. Devine	6.50	
W. A. Mack & Co.	54.00	
Middlesex Registry of Deeds	17.75	
J. H. Sparks	1.00	
A. G. Stiles	16.00	
E. M. Tucke	50.00	
		199.65

Transferred to General Treasury Fund

3,783.85

316.15

4,100.00

CITY MESSENGER'S DEPT.

Salaries

Appropriation	1,200.00	1,200.00
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Expended

Joseph E. Pattee — City Messenger.....	1,200.00	1,200.00
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Lighting

Appropriation	1,550.00	1,550.00
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Expended

For Lighting City Hall :		
Lowell Electric Light Corp.	1,025.92	
Lowell Gas Light Co.	305.19	
		1,331.11
For Lighting Memorial Hall :		
Lowell Electric Light Corp.	62.46	
Lowell Gas Light Co.	32.85	
		95.31
		1,426.42
Transferred to General Treasury Fund		123.58
		1,550.00

Sundries

Appropriation	400.00	400.00
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Expended

For Books, Stationery, Printing, etc.:		
Baker Printing Co.	3.25	
Courier-Citizen Co.....	3.00	
Crawford Printing Co.	51.83	
H. C. Kittredge	1.85	

CITY MESSENGER'S DEPT.—Continued

Books, Stationary, Printing, etc.—Continued

Thomas H. Lawler	5.00
G. C. Prince & Son	68.75
Sampson, Murdock Co.	17.50
The Home Education Co.	1.50

152.68

For Telephone, Transportation, Carriage-hire, etc.:

American Express Co.	.15
B. & M. R. R.	20.00
Morse Coach Co.	2.50
New England Tel. & Tel. Co.	35.31
N. Y. & B. Des. Express Co.	.35
J. H. Sparks	79.75

138.06

For Sundries:

Adams & Co.	5.50
Bon Marche	3.20
L. A. Derby	24.93
H. C. Girard	10.88
J. B. Goodwin	4.20
James S. Hastings	.75
James F. Kelty	1.00
R. J. Lang & Co.	4.00
Clarence Mahoney	2.00
Mellor & Saunders	4.00
O'Donnell Dry Goods Co.	9.00
Page's Spa	8.00
Parsons & Mealey	7.00
Simpson & Rowland	4.50
Charles F. Young & Co.	20.00

108.96

Transferred to General Treasury Fund

399.70

.30

400.00

CLERK OF COMMON COUNCIL

Appropriation 300.00

300.00

CLERK OF COMMON COUNCIL—Continued

Expended

Frank M. Dowling — Clerk Common Council.....		300.00
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CLERK OF COMMITTEES

Salaries

Appropriation	1,200.00	1,200.00
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Expended

Frank M. Dowling—Clerk of Committees	1,200.00
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Sundries

Appropriation	200.00	200.00
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Expended

For Books, Stationery, Printing, etc.:		
Courier-Citizen Co.	45.50	
Helen A. Dimon	20.00	
Dumas & Co.	3.00	
Libby Printing Co.	16.75	
Middlesex Typewriting Co.....	19.50	
G. C. Prince & Son	32.48	
Thorpe & Martin Co.	10.20	
		147.43
For Transportation:		
Boston & Maine Railroad	40.50	
		40.50
		187.93
Transferred to General Treasury Fund		12.07
		200.00

CITY SEALER'S DEPT.

Salary

Appropriation	<u>350.00</u>	350.00
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Expended

James R. Fulton — City Sealer.....	<u>350.00</u>	<u>350.00</u>
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Sundries

Appropriation	<u>66.00</u>	<u>66.00</u>
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Expended

For Advertising and Printing:

Courier-Citizen Co.	4.00	
Libby Printing Co.	2.50	
Lowell Daily Mail.....	2.00	
Lowell Sun	<u>2.00</u>	10.50

For Teaming:

T. G. Little.....	3.00	
Hubert McConnell	20.00	
S. W. Parker	<u>30.74</u>	53.74

Transferred to General Treasury Fund		64.24
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		<u>1.76</u>
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		<u>66.00</u>
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POUND KEEPER'S DEPT.

Salary

Appropriation	5.00	5.00
Transferred to General Treasury Fund		5.00

FISH WARDEN'S DEPT.

Salary

Appropriation	40.00	40.00
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Expended

Geo. T. Spence, Fish Warden.....	40.00	40.00
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INSPECTOR OF ANIMALS AND PROVISIONS

Salary

Appropriation	500.00	500.00
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Expended

W. A. Sherman — Inspector		500.00
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CITY WEIGHER'S DEPT.

Salary

Appropriation	800.00	800.00
	<u> </u>	

Expended

Geo. F. Noonan.....	800.00	800.00
	<u> </u>	<u> </u>

Sundries

Appropriation	18.00	18.00
	<u> </u>	<u> </u>

Expended

For Books, Stationery, etc.:

Carter's Ink Co.	.38	
H. C. Kittredge	1.00	
Osmond Long	6.00	
F. A. M. Tobin	8.75	
	<u> </u>	16.13

For Sundries :

American Express Co.	.15	
Kelty Bros.	.35	
	<u> </u>	.50

16.63

Transferred to General Treasury Fund		1.37
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18.00

INSPECTOR OF MILK AND VINEGAR DEPT.

Salaries

Appropriation	2,205.25	2,205.25
	<u> </u>	<u> </u>

INSPECTOR OF MILK AND VINEGAR DEPT.—Continued

Expended

Thomas O. Allen, Inspector	1,500.00	
James E. Hill, Collector	702.00	
		2,202.00
Transferred to General Treasury Fund.....		3.25
		2,205.25

Sundries

Appropriation	150.00	
Additional appropriation.....	25.00	
		175.00

Expended

For Printing, Stationery, etc. :		
B. M. & M. E. Hutchins.....	2.50	
Thomas H. Lawler.....	2.50	
G. C. Prince & Son.....	9.00	
Sampson, Murdock Co.	3.00	
Union Printing Co.....	12.50	
		29.50

For Laboratory Supplies :

Thomas O. Allen.....	12.71	
Carleton & Hovey.....	1.60	
Eimer & Amend	4.83	
Heinze Electric Co.	5.50	
Talbot Dyewood & Chemical Co.	2.04	
H. E. Webster Co.	13.23	
		39.91

For Sundries:

American Express Co.....	.90	
David Bellerose	6.25	
Cross Awning Co.	1.00	
J. F. Haskell.....	10.00	
W. A. Mack & Co.	6.53	
Man. & Concord Express Co.	.40	
W. H. Ward	10.15	
Welch Bros.	60.95	
		96.18

Transferred to General Treasury Fund

	165.59
	9.41
	175.00

INSPECTOR OF WIRES DEPT.**Salaries**

Appropriation	2,226.00	
		<u>2,226.00</u>

Expended

Jas. F. McElholm, Inspector	1,600.00	
Marietta L. McGrath, Clerk	624.00	
		<u>2,224.00</u>
Transfer to General Treasury Fund		2.00
		<u>2,226.00</u>

Sundries

Appropriation	402.00	
Additional Appropriation	48.98	
		<u>450.98</u>

Expended

For Stationery, Printing, Etc.		
Buckland Printing Co.	12.00	
Courier Citizen Co.	10.00	
Thomas H. Lawler	3.00	
Lawler Printing Co.	18.00	
Municipal Journal Pub. Co.	3.00	
G. C. Prince & Son	6.50	
Sampson, Murdock Co.	3.00	
		<u>55.50</u>
For Repairing Carriages and Harnesses:		
Donovan Harness Co.	13.90	
F. B. Hill & Co.	54.25	
J. H. Sparks	3.05	
Sawyer Carriage Co.	6.73	
		<u>77.93</u>
For Board of Horses:		
A. B. Humphrey	45.72	
J. H. Sparks	215.71	
		<u>261.43</u>

INSPECTOR OF WIRES DEPT. Continued

For Shoeing Horses:		
N. Baron & Co.	2.50	
Owen J. Carney	16.00	
John J. Donnelly	7.75	
		<u>26.25</u>
For Sundries:		
B. & M. R'd	20.25	
H. C. Girard	1.12	
J. H. Sparks	8.50	
		<u>29.87</u>
		<u>450.98</u>

MAYOR'S DEPT.

Salaries

Appropriation	4,200.00	
		<u>4,200.00</u>

Expended

James B. Casey, Mayor	3,000.00	
John R. Shea, Secretary	1,200.00	
		<u>4,200.00</u>

Sundries

Appropriation	400.00	
		<u>400.00</u>

Expended

For Stationery, Printing, Typewriting, Etc.		
Mary Caverly	21.62	
Courier Citizen Co.....	6.00	

MAYOR'S DEPT.—Continued**For Stationery, Printing, Typewriting, Etc.—Continued**

Daily Mail Pub. Co.	3.00
Helen A. Dimon	1.00
Harry C. Kittredge	3.00
Lawler Printing Co.	4.10
Thomas H. Lawler	86.55
Middlesex Typewriting Co.....	6.00
Municipal Journal Pub. Co.	3.00
G. C. Prince & Son	35.00
Blanche M. Riley	6.15
Sampson, Murdock Co.	3.00
F. A. M. Tobin	6.50

184.92
For Telephone, Transportation, Carriage Hire, Etc:

Boston & Maine R'd	40.25
A. B. Humphrey	6.00
Keefe & Horan	10.00
Morse Coach Co.	2.00
Thos. J. McDermott	17.00
New England Tel. & Tel. Co.	12.20
J. F. O'Donnell & Sons	10.50
M. T. Rafferty	3.00
Western Union Telegraph Co.	.60

101.55
For Sundries:

M. J. Quinn	12.25
Waverly Hotel	10.00
Frank L. Wells	10.00

32.25

318.72

Transferred to General Treasury Fund.....

8.28

400.00

REGISTRARS OF VOTERS DEPT.

Salaries

Appropriation	3,850.00	
Additional Appropriation	299.00	
		<u>4,149.00</u>

Expended

Girard P. Dadman	750.00	
John P. Farley	800.00	
Albert J. Blazon	750.00	
Cornelius F. Sullivan	750.00	
		<u>3,050.00</u>

For Clerk Hire:

M. E. Burnham	1.50	
Edwards Cheney	88.75	
F. R. Cross	32.50	
H. P. Farley	346.25	
M. J. Fletcher	58.75	
J. C. King	83.75	
D. J. Leary	61.25	
F. B. Peabody	53.75	
F. N. Tilton	372.50	
		<u>1,099.00</u>
		<u>4,149.00</u>

Sundries

Appropriation	700.00	
Additional Appropriation	675.25	
		<u>1,375.25</u>

For Books, Stationery Etc.:

Dumas & Co.	20.25	
G. C. Prince & Son	1.50	
Thomas H. Lawler	1.00	
Sampson, Murdock Co.	6.00	
F. A. M. Tobin	7.50	
Union Printing Co.	8.50	
		<u>44.75</u>

REGISTRARS OF VOTERS DEPT.—Continued

For Printing, Posting, Etc.:

Butterfield Printing Co.	14.25	
Courier Citizen Co.	1,005.68	
Dumas & Co.	36.05	
Lawler Printing Co.	4.50	
Libby Printing Co.	95.00	
Osmond Long	23.20	
Lowell Bill Posting Co.	75.30	
W. H. Spaulding & Co.	9.85	
		<u>1,263.83</u>

For Sundries:

Appropriation for Engineering	5.87	
Chas. F. Bradley	10.60	
Girard P. Dadman	14.40	
Chas. A. Eveleth	19.80	
Chas. R. Preston	3.00	
J. H. Sparks	2.00	
Waverly Hotel	11.00	
		<u>66.67</u>
		<u>1,375.25</u>

CARE OF CITY HALL.

Labor

Appropriation	5,294.50	
		<u>5,294.50</u>

Expended

For Labor, sundry persons	5,294.50	
		<u>5,294.50</u>

Police Officer

Appropriation	1,003.75	
		<u>1,003.75</u>

CARE OF CITY HALL—Continued

Expended

For Appropriation for Police, Salaries and Labor	1.003.75	
		<u>1,003.75</u>

Sundries

Appropriation	900.00	
		<u>900.00</u>

Expended

For Repairs on Fixtures, Etc.:		
L. A. Derby	36.27	
Harry F. Harding	1.40	
Tucke & Parker	1.31	
Welch Bros.	7.20	
		<u>46.18</u>

For Furniture, Repairs, Etc.:

Adams & Co.	59.05	
Jas. Gookin	17.00	
Alvin Lawrence	1.35	
Clarence Mahoney	27.55	
Geo. Mahoney	24.00	
A. E. O'Heir	18.00	
Tucke & Parker	5.00	
		<u>151.95</u>

For Cleaning, Supplies:

F. M. Bill & Co.	5.50	
Bon Marche	24.24	
C. B. Coburn Co.	25.83	
Frye & Crawford	7.50	
India Alkali Works	13.77	
Ingalls & Co.	16.43	
W. A. Ingham Co.	2.65	
A. L. Kittredge & Co.	14.85	
R. J. Lang & Co.	11.14	
Lowell Polish Co.	9.00	
O'Brien Bros.	7.00	
A. G. Pollard & Co.	18.00	
Talbot Dyewood & Chemical Co.	7.19	
The Ingalls Co.	16.20	
		<u>179.30</u>

CARE OF CITY HALL—Continued

For Sundries:

Appropriation for Water Works	171.90
Appropriation for Parks, sundries	13.04
Appropriation for Public Bldg., Elec. Power	9.94
American Express Co.	.65
E. J. Carroll & Co.	7.92
Collins & Gallagher	1.50
Cross Awning Co.	2.50
Daniel Gage	108.60
R. A. Griffiths	30.00
Jas. S. Hastings	.60
W. A. Ingham Co.	4.50
Alvin Lawrence	50.00
J. J. McManmon	10.00
W. W. Morrison	7.50
S. C. Mussey	5.76
O'Brien Bros.	1.20
G. C. Prince & Son	22.00
Chas. R. Preston	5.00
Robertson & Co.	25.00
Simpson & Rowland	3.30
S. J. Steinmetz	22.75
Thompson Hdw. Co.	8.50
Whittett & Co.	6.00

518.16

895.59

Transferred to General Treasury Fund

4.41

900.00

CITY CEMETERIES DEPT.

Appropriation	9,000.00
Receipts	.75

9,000.75

CITY CEMETERIES DEPT.—Continued

Expended

For Salaries:			
John J. Jackson, Supt.	1,038.93		
Chas. A. Wotton	115.05		
			1,153.98
For Labor—sundry persons	6,043.02		
			6,043.02
For Telephone and Water:			
Appropriation for Water Works	10.50		
New England Tel. & Tel. Co.	4.12		
			14.62
For Hardware, Pipe, Fittings, Etc.:			
Adams Hardware & Paint Co.	24.02		
Sylvester Bean	16.00		
F. W. Cheney & Co.	12.48		
E. P. Flanders & Co	31.50		
W. A. Mack & Co.	3.65		
Pevey Bros.	7.50		
Thompson Hdw. Co.	1.40		
P. F. Welch	2.50		
Welch Bros.	407.45		
			506.50
For Painters' Supplies:			
Adams Hardware & Paint Co.	6.50		
Sylvester Bean	8.90		
C. B. Coburn Co.	.95		
A. L. Kittredge & Co.	12.01		
			28.36
For Plants and Shrubs:			
Henry A. Dreer	14.26		
E. P. Flanders & Co.	17.50		
J. G. Johnson	23.70		
			55.46
For Hay, Grain, Etc.:			
Joseph Mullen	74.23		
H. E. Noyes & Son	36.19		
			110.42
For Manure, Loam, Sod, Etc.:			
Philip P. Conners & Co.	45.00		
John S. Haynes	37.00		

CITY CEMETERIES DEPT.—Continued

For Manure, Loam, Sod, Etc.—Continued

Thos. Larkin	90.00	
A. J. Livingston	22.50	
John Mahoney	6.00	
John P. Quinn	166.00	
John Sullivan	18.00	
		384.50

For Carriages, Harnesses, Etc.:

A. L. Butman	30.90	
Donovan Harness Co.	73.28	
F. B. Hill & Co.	96.60	
		200.78

For Stationery, Printing, Etc.:

Buckland Ptg. Co.	85.25	
G. C. Prince & Son	32.63	
Sampson, Murdock Co.	3.00	
F. A. M. Tobin	7.75	
Union Ptg. Co.	2.25	
		130.88

For Sundries:—

Gustaf Carleson	\$9.35	
Owen J. Carney	116.75	
Robert Carruthers	39.00	
O. P. Davis	9.00	
Q. A. Foster	3.65	
J. E. Freeman	2.85	
Gilbrides	2.50	
J. A. Gregoire	10.50	
Jas. S. Hastings	14.93	
E. F. Hathaway	3.00	
A. B. Humphrey	61.00	
V. S. Jacques	1.20	
Lowell Polish Co.	1.50	
Morse Coach Co.	19.50	
Frank A. Orcott	30.00	
W. A. Sherman	9.00	
J. H. Sparks	26.50	

CITY CEMETERIES DEPT.—Continued

For Sundries—Continued

D. T. Sullivan	10.85	
		\$371.08
		\$8,999.60
Transferred to General Treasury Fund		1.15
		\$9,000.75

ELECTIONS.

Appropriation	13,000.00	
		13,000.00

Expended

For Sundry Persons' Services as Election Officers	7,611.00	
For Labor	1,374.35	
		8,985.35
For Clerks:		
A. J. Blazon	7.50	
M. C. Brennan	2.00	
Edwards Cheney	220.00	
H. A. Dimon	34.50	
H. P. Farley	62.50	
J. P. Farley	17.50	
J. C. King	2.50	
A. Salmon	75.00	
F. N. Tilton	7.50	
C. P. Tuttle	2.50	
J. J. Walker	2.50	
		434.00
For Hardware, Etc.:		
W. T. S. Bartlett	3.60	
Chapman & Soden	52.15	
N. D. Lafleur	8.95	
Thompson Hdw. Co.	8.43	
		73.13

ELECTIONS—Continued

For Printing, Posting and Advertising:

Baker Printing Co.	10.00
Buckland Printing Co.	15.50
Butterfield Printing Co.	683.75
Courier Citizen Co.	640.60
C. I. Hood Co.	8.70
Lawler Printing Co.	9.25
Lepine & Co.	17.85
Libby Printing Co.	73.50
Lowell Labor Journal	24.00
Lowell Daily Mail	34.00
Lowell Sun	34.50
Chas. Littlefield & Co.	16.00
Chas. E. Robinson	84.50
Saturday Free Press	24.00
Sunday Telegram	38.25
Union Printing Co.	576.05

2,290.45

For Stationery, Typewriting, Etc.:

Girard P. Dadman	24.00
Helen A. Dimon	10.00
Dumas & Co.	29.75
Thomas H. Lawler	62.92
Osmond Long	13.00
Middlesex Typewriting Co.	30.00
G. C. Prince & Son	20.90
Chas. S. Proctor	140.00
Smith Premier Typewriting Co.	5.00

335.57

For Teaming, Carriage Hire, Etc.:

Thomas Casey	12.00
City Transfer Co.	14.00
Conway Transfer Co.	56.50
C. H. Hanson & Co.	95.00
T. G. Little	85.00
Morse Coach Co.	7.20
S. T. Moses	12.00
S. W. Parker	8.00
O. F. Prentiss	21.00
M. Reynolds	20.00

ELECTIONS—Continued

For Teaming, Carriage Hire, Etc.—Continued		
R. E. Richardson	15.00	
J. H. Sparks	11.50	
Stanley Trans. Co.	62.50	
John Sullivan	20.00	
		439.70
For Fuel:		
Edward Cawley	.60	
W. T. Griffin	52.00	
		52.60
For Rent:		
F. H. Butler	10.00	
Michael Broderick	10.00	
Abbie A. Gates	75.00	
Mechanics Savings Bank	25.00	
Percy Parker	75.00	
		195.00
For Sundries:		
C. B. Coburn Co.	60.29	
Girard P. Dadman	12.00	
Kelty Bros.	2.25	
Chas. Littlefield & Co.	54.90	
Chas. R. Preston	10.00	
Spencer & Co.	11.45	
		150.89
		12,956.69
Transfer to General Treasury Fund		43.31
		13,000.00

STATE SUPERVISOR'S DEPT.

Balance undrawn Jan. 1, 1905	176.00	
Appropriation	432.00	
		608.00
Expended		
For Services of Sundry Persons	424.00	
Balance to 1906	184.00	
		608.00

ENGINEERING DEPT.

Appropriation	7,300.00	
Receipts from Sundry Departments	9,024.06	
		16,324.06

Expended

For Salary:

Geo. Bowers, City Engineer	2,700.00	
To Sundry Persons	12,976.50	
		15,676.50

For Carriages, Harnesses and Repairs:

Donovan Harness Co.	2.00	
F. B. Hill & Co.	28.35	
Sawyer Carriage Co.	37.79	
		68.14

For Books, Stationery, Printing, Etc.:

Baker Printing Co.	3.25	
Butterfield Printing Co.	14.80	
Carter's Ink Co.	.38	
Engineering Record	3.00	
Thomas H. Lawler	9.20	
Library Bureau	3.74	
Middlesex Typewriting Co.	1.20	
Municipal Engineering Co.	2.00	
G. C. Prince & Son	27.75	
Sampson, Murdock Co.	13.20	
F. A. M. Tobin	4.50	
		83.02

For Sundries:

Adams Hdw. & Paint Co.	.10	
American Express Co.	1.25	
A. Batchelder & Co.	1.50	
W. T. S. Bartlett	.35	
C. L. Berger & Sons	177.75	
Geo. Bowers	75.15	
Boston & Maine R'd	20.25	
Boutwell Bros.	1.09	
Edward B. Carney	7.15	
C. B. Coburn Co.	.78	
E. P. Flanders & Co.	1.70	
H. C. Girard	1.30	
Geo. E. Hutchins	1.00	

ENGINEERING DEPT.—Continued

For Sundries—Continued

A. L. Kittredge & Co.	13.10	
R. J. Lang & Co.	1.20	
Lull & Hartford	5.85	
W. A. Mack & Co.	3.95	
J. O. Mason & Co.	29.40	
Chas. E. Moss	3.60	
New England Tel. & Tel. Co.	63.75	
N. Y. & Boston Desp. Express Co.	.65	
O'Donnell Dry Goods Co.	.60	
J. H. Sparks	6.00	
Simpson & Rowland	.50	
Talbot Dyewood & Chem. Co.	.80	
Thompson Hdw. Co.	.99	
		<u>419.76</u>

16,247.42

Transfer to General Treasury Fund

76.64

16,324.06

FIRE DEPT.

Salaries and Labor

Appropriation	111,338.00	
		<u>111,338.00</u>

Expended

For E. S. Hosmer, Chief Engineer	2,200.00	
Jas. F. Norton, Assistant Engineer	1,500.00	
Edward Melloy, Assistant Engineer	400.00	
Geo. F. Salmon, Assistant Engineer	400.00	
C. Stackpole, Assistant Engineer	400.00	
For Call Firemen	17,325.89	
Permanent Firemen	88,577.94	
		<u>110,803.83</u>
Transferred to General Treasury Fund		534.17
		<u>111,338.00</u>

FIRE DEPT.—Continued

Sundries

Appropriation	24,450.00	
Additional appropriation	1,245.44	
Receipts	9.53	
		<u>25,704.97</u>

Expended

For Water, Lighting & Telephone:		
Appropriation for Water Works	436.71	
Lowell Gas Light Co.	1,691.63	
Lowell Electric Light Co.	406.14	
New England Tel. & Tel. Co.	257.31	
		<u>2,791.79</u>

For Fuel:

J. Brady	6.00	
J. T. Brennan	3.00	
Edward Cawley	2,790.75	
Geo. Lynch	28.00	
Frank Reilly	3.00	
		<u>2,830.75</u>

For Hay, Grain, etc.:

Ame & Co.	25.00	
J. B. Cover & Co.	180.38	
Coffey Bros.	107.13	
Chas. Dumas & Co.	66.15	
G. M. Foster	371.31	
W. P. Foye	5.00	
R. H. Hynes	158.80	
Livingston Grain Co.	42.51	
John Lennon	97.65	
Joseph Marin	361.35	
T. J. McDonald	902.47	
Jos. Mullen	1,535.70	
H. E. Noyes & Son	1,221.72	
D. A. Reardon	21.42	
Paul Vigeant & Co.	1,403.68	
O. D. Wilder	377.52	
		<u>6,877.79</u>

For Horses:

C. H. Hanson & Co.	2,023.60	
		<u>2,023.60</u>

FIRE DEPT.—Continued

For Hardware, etc.:

Adams Hardware & Paint Co.	47.20
W. T. S. Bartlett	13.92
Boutwell Bros.	23.32
Cornelius Callahan Co.	7.00
F. W. Cheney & Co.	19.45
E. P. Flanders & Co.	3.50
H. C. Girard	2.65
N. D. Lafleur	4.00
W. A. Mack & Co.	85.32
Rice & Co.	5.13
Smith & Lawrence	1.70
Thompson Hardware Co.	52.32

265.51

For Shoeing Horses:

R. R. Armistead	54.51
N. Barron & Co.	1.00
James Blakeley	119.50
E. P. Bryant	25.13
L. B. Butters	14.00
M. J. Cahill	293.50
Owen J. Carney	92.75
John H. Collins	53.25
C. Desmond	220.45
John J. Donnelly	178.90
Q. A. Foster	22.05
M. V. B. Libby	94.45
A. D. Mitten	202.73
A. Parsons	145.10
Victor Provencher	11.60
Henry Reynolds	67.00
S. A. Shattuck	43.04
C. H. Ward	52.23
J. T. Williamson	102.90

1,794.09

For Carriages, Harnesses & Repairs:

American Water Proof Harness Co.	1.25
R. R. Armistead	4.30
Robert Barris	56.15
Chas. E. Berry	47.20

FIRE DEPT.—Continued**For Carriages, Harnesses and Repairs—Continued**

E. P. Bryant	39.45
A. L. Butman	82.60
A. H. Cluer	31.20
Donovan Harness Co.	110.00
G. K. Hammond	3.40
C. H. Hanson & Co.	20.00
F. B. Hill & Co.	729.00
C. F. Keyes	8.40
J. H. Laporte	220.15
H. J. O'Dowd	20.00
Parker Harness Co.	44.20
A. Parsons	17.45
Sawyer Carriage Co.	492.33
J. H. Sparks	8.35
D. C. Stanley	8.30
H. W. Tinker	9.00

1,952.73
For Pipe, Fittings, Hose & Repairs:

American Locomotive Co.	4.90
American Tube Works	2.09
H. R. Barker Mfg. Co.	188.76
Boston Woven Hose Co.	6.00
Cornelius Callahan	1,694.29
Eagle Foundry Co.	1.70
Geo. P. Green	45.00
Geo. E. Hutchins	41.65
Wm. H. McElholm	3.50
National Pipe Bending Co.	28.00
A. F. Nichols	.48
C. N. Perkins Co.	24.50
Scannell Boiler Works	4.00
Union Brass Foundry	4.13
Union Iron Foundry	17.68
Walworth Mfg. Co.	29.75
H. E. Webster Co.	272.85
Welch Bros.	44.05

2,409.33
For Painters' & Electricians' Supplies:

Adams Hardware & Paint Co.	38.37
Boston Electric Co.	3.75

FIRE DEPT.—Continued**For Painters' & Electricians' Supplies—Continued**

C. B. Coburn Co.	69.74
W. E. Decrow	126.41
P. Dempsey & Co.	5.40
L. A. Derby	733.05
Lowell Polish Co.	8.40
Smith & Lawrence	3.20
Tucke & Parker Co.	31.77
Western Electric Instrument Co.	31.50

1,051.59

For Stable Supplies:

Ame & Co.	10.00
F. M. Bill & Co.	50.00
Brunelle Pharmacy	6.00
Cornelius Callahan Co.	179.80
N. Calnan	7.50
Frank Campbell	3.00
Chas. E. Carter	11.00
Coates Clipper Mfg. Co.	1.25
C. B. Coburn Co.	363.46
Walter Coburn & Co.	21.00
Columbia Refining Co.	4.00
Wm. Hannan	4.80
Independent Refining Co.	1.20
W. A. Ingham Co.	4.80
Lowell Rendering Co.	38.40
John McCullough	7.20
O. B. Randlett	13.75
Simpson & Rowland	13.35
Talbot Dyewood & Chemical Co.	102.33
Whitman & Pratt Rendering Co.	10.80

853.64

For Furniture, Bedding, etc.

Bon Marche	16.50
Cook, Taylor & Co.	18.75
John Cross	1.75
J. J. Doherty & Co.	28.80
Gardner Bros.	6.00
Gilbrides	11.09
Gookin Bros. Co.	88.97

FIRE DEPT.—Continued**For Furniture, Bedding, Etc.—Continued**

Gookin Furniture Co.	155.00
E. Hapgood & Son	48.15
L. W. Hawkes & Co.	29.25
Middlesex Co.	394.40
R. T. Moore	5.00
H. C. McOsker	27.95
O'Donnell Dry Goods Co.	73.50
A. E. O'Heir	20.40
A. G. Pollard & Co.	242.78

1,168.29

For Stationery, Printing, etc.:

Buckland Printing Co.	14.75
Courier Citizen Co.	2.50
Dumas & Co.	7.50
H. C. Kittredge	.67
Lawler Printing Co.	3.50
Thomas H. Lawler	1.75
G. C. Prince & Son	7.75
Sampson, Murdock Co.	3.00
F. A. M. Tobin	110.35
Union Printing Co.	5.50

157.27

For Veterinary:

Wm. S. Eaton, Jr.	102.00
C. A. Hamblett	3.50
J. G. Lesure	17.50
Chas. E. Munn	28.00
W. A. Sherman	7.50
J. H. Sparks	96.00
Jesse A. Viles	24.00

278.50

For Transportation, Carriage Hire, etc.:

American Express Co.	6.74
Boston & Maine Railroad	20.75
Manchester & Concord Express Co.	.50
Meserves Lowell & Boston Express Co.	.25
N. Y. & Boston Desp. Exp. Co.	5.50
N. Y., N. H. & H. Railroad	9.21
J. H. Sparks	4.00

46.95

FIRE DEPT.—Continued

For Sundries:

Wm. K. Aldrich	8.40	
B. G. Brown	33.00	
W. P. Brazer & Co.	3.50	
C. G. Braemar	33.70	
Burnham & Davis Co.	19.84	
James Calnin	99.00	
Edward Cawley	3.50	
Cross Awning Co.	2.00	
W. H. Gibson	15.00	
H. L. Gonzales	3.00	
Greenwood Bros.	4.45	
C. H. Hanson & Co.	412.25	
C. J. Hood Co.	7.00	
E. S. Hosmer	101.50	
Geo. E. Hutchins	5.35	
Fred. W. Jenness	70.00	
Alvin Lawrence	3.50	
D. D. Libby	48.00	
Lowell Rubber Co.	5.33	
T. J. McDonald	4.25	
Jas. Murkland & Son	5.25	
A. F. Nichols	3.00	
C. N. Perkins Co.	83.75	
F. E. Putnam	26.00	
Scovill Mfg. Co.	42.75	
Scriptures Laundry	132.82	
The Ingalls Co.	15.00	
Waverly Hotel	7.00	
Emily J. Webster	5.00	
		1,203.14
		25,704.97

FIRE DEPT.—REPAIRS NOS. 4 AND 6 ENGINES.

Appropriation	3,200.00	
		3,200.00

FIRE DEPT.—Repairs Nos. 4 and 6 Engines—Continued

Expended

To American Locomotive Co.	3,150.00	
Transferred to General Treasury Fund	50.00	
		<u>3,200.00</u>

FIRE DEPT.—REPAIRS STEAMER NO. 3.

Balance undrawn Jan. 1, 1905	1,985.75	
		<u>1,985.75</u>

Expended

To American Locomotive Co.	1,924.00	
Transferred to General Treasury Fund	61.75	
		<u>1,985.75</u>

FIRE DEPT.—UNDERGROUND WIRES.

Balance undrawn Jan. 1, 1905	688.33	
		<u>688.33</u>

Expended

To H. R. Barker Mfg. Co.	110.34	
W. E. Decrow	69.00	
N. E. Tel. & Tel. Co.	163.31	
		<u>342.65</u>
Balance to 1906		<u>345.68</u>
		<u>688.33</u>

HEALTH DEPT. "OFFICE."

Salaries and Labor

Appropriation	9,135.00	
Additional appropriation	149.75	
		<u>9,284.75</u>

HEALTH DEPT.—“OFFICE”—Continued

Expended

Board of Health:		
Wm. C. Doherty	500.00	
Leonard Huntress, M. D.	500.00	
W. B. Jackson, M. D.	500.00	
		1,500.00
Agent, Horace H. Knapp		1,825.00
Clerk, Katherine M. Snow		624.00
Bacteriologist, Thomas B. Smith		600.00
Inspectors:		
F. A. Bates	1,368.75	
W. H. Connors	1,092.00	
J. M. Farrell	169.00	
Stephen Garrity	1,092.00	
Frank J. O'Hare	1,014.00	
		4,735.75
		9,284.75

Sundries

Appropriation	2,321.00	
Receipts	10.01	
		2,331.01

Expended

For Professional Services:		
J. F. Boyle, M. D.	13.00	
W. A. Johnson, M. D.	384.00	
E. G. Livingston, M. D.	8.00	
N. D. Pratt, Atty	10.00	
Burt Ranson Rickards, M. D.	5.00	
T. B. Smith, M. D.	186.50	
		606.50
For Stationery, Printing, Advertising, etc.:		
Carter's Ink Co.	.76	
Courier Citizen Co.	25.00	
F. W. Davis Co.	14.00	
Dumas & Co.	18.75	
Journal Medical Research	4.00	
Harry C. Kittredge	3.90	

HEALTH DEPT.—“OFFICE”—Continued**For Stationery, Printing, Advertising, Etc.—Continued**

H. H. Knapp	14.50
Thomas H. Lawler	17.35
Lawler Printing Co.	79.06
Lee Bros. & Co.	5.00
Libby Printing Co.	209.10
Library Bureau	2.25
Lowell Daily Mail	7.50
Lowell Sun	5.50
Municipal Journal & Engineering	3.00
G. C. Prince & Son	24.38
Sampson, Murdock Co.	6.00
Smith Premier Typewriter Co.	65.00

505.05

For Laboratory Supplies:

H. M. Alexander & Co.	92.50
Bausch & Lomb Optical Co.	21.53
Carleton & Hovey	26.00
P. Dempsey & Co.	52.50
Eimer & Amend	13.02
Ellingwood & Co.	.63
J. R. Fallon	4.50
Falls & Burkinshaw	24.00
R. J. Lang & Co.	13.70
Talbot Dyewood & Chemical Co.	40.89
H. E. Webster Co.	17.10

306.37

For Telephone and Transportation:

American Express Co.	10.15
Boston & Maine Railroad	20.25
Manchester & Concord Express	.95
N. E. Tel. & Tel. Co.	14.61

45.96

For Sundries:

Appropriated for Water Works	74.46
Appropriated for Engineering	14.70
Otis Allen & Son	10.00
F. A. Bates	8.00
City of Malden	25.00
Connors Bros. Const'n Co.	150.00

HEALTH DEPT.—“OFFICE”—Continued

For Sundries—Continued

Gilbride's	3.75	
Grant Jewelry Co.	6.00	
C. H. Hanson & Co.	65.00	
C. F. Hatch & Co.	11.75	
Ingalls & Co.	6.88	
Keefe Bros.	1.60	
Kelty Bros.	4.00	
H. H. Knapp	23.00	
R. J. Lang & Co.	1.50	
Thos. C. Lee & Co.	25.00	
Lowell Hospital Ass'n	245.87	
Mass Assn. Board of Health	8.00	
Merrimack Clothing Co.	2.75	
New Eng. Elect. & Supply Co.	.99	
Scannell Boiler Wks.	.75	
Rose Scott	12.00	
T. A. D. Sullivan & Co.	3.00	
Thompson Hdw. Co.	.36	
Execution of Court—City vs. Archambeault..	37.97	
		<u>742.33</u>
		2,206.21
Transfer to General Treasury Fund		<u>124.80</u>
		<u>2,331.01</u>

HEALTH DEPT. “YARD.”

Labor

Appropriation	28,637.00	
Additional Appropriation	513.61	
Receipts	817.75	
		<u>29,968.36</u>
		29,968.36
		<u>29,968.36</u>
Expended		
For Labor, Sundry Persons	29,968.36	
		<u>29,968.36</u>

HEALTH DEPT.—“YARD”—Continued

Sundries

Appropriation	6,098.00	
Additional Appropriation	852.99	
		<u>6,950.99</u>

Expended

For Water and Lighting:		
Appropriation for Water Works	96.70	
Lowell Elect. Lt. Co.	27.51	
Lowell Gas Lt. Co.	54.09	
		<u>178.30</u>
For Fuel, Cement, Etc.:		
John Brady	35.00	
Edward Cawley	300.41	
Horne Coal Co.	6.50	
Dan'l T. Sullivan	29.25	
		<u>371.16</u>
For Hay, Grain, Etc.:		
Baker & Stiles	57.00	
Coffey Bros.	226.43	
G. M. Foster	272.66	
Livingston Grain Co.	11.36	
T. J. McDonald	408.28	
Joseph Mullen	1,097.16	
Dennis A. Murphy	62.20	
H. E. Noyes & Son	551.63	
Paul Vigeant & Co.	308.19	
O. D. Wilder	429.45	
		<u>3,424.36</u>
For Carriages, Harnesses and Repairs:		
Robert Barris	2.60	
A. L. Butman	8.55	
Donovan Harness Co.	485.88	
H. J. O'Dowd	39.00	
Sawyer Carriage Co.	1.50	
		<u>537.53</u>
For Lumber:		
Chas. E. Howe & Co.	23.91	
Pratt & Forrest	54.70	

HEALTH DEPT.—“YARD”—Continued

For Lumber—Continued

Amasa Pratt Co.	36.18
W. H. Wiggin	24.65

139.44

For Hardware, Pipe, Fittings, Etc.:

Adams Hdw. & Paint Co.	2.25
W. T. S. Bartlett	.65
J. C. Bennett	29.25
Boutwell Bros.	407.63
E. P. Flanders & Co.	35.79
H. C. Girard	42.79
W. A. Mack & Co.	2.00
Scannell Boiler Wks.	146.00
Thompson Hdw. Co.	5.88
Union File Co.	9.00
P. F. Welch	10.34

691.58

For Painters' Supplies:

Adams Hdw. & Paint Co.	9.85
Sylvester Bean	.75
C. B. Coburn Co.	6.69
Lowell Polish Co.	2.80

20.09

For Veterinary:

F. K. Hubbard	5.00
W. A. Sherman	61.00
J. H. Sparks	16.00

82.00

For Horses:

C. H. Hanson & Co.	1,095.00
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1,095.00

For Sundries:

App. for Public Bldg's. Electric Power....	10.62
F. M. Bill & Co.	4.15
E. W. Brown	3.10
C. B. Coburn Co.	10.39
Patrick Cogger	183.00
Dan'l Gage	18.18
Gookin Co.	2.00
C. H. Hanson & Co.	20.50

HEALTH DEPT.—“YARD”—Continued

For Sundries—Continued

Geo. E. Hutchins	11.50	
W. A. Ingham Co.	3.80	
Keefe Bros.	6.55	
L. S. Kimball	3.75	
Larson & Bentley	40.00	
J. McCullough	.75	
T. J. McDonald	32.55	
Frank E. McNabb	2.70	
McNabb Bros.	12.80	
Joseph Mullen	2.08	
Jas. Murkland & Son	11.50	
Morse Coach Co.	6.00	
New Eng. Elect. & Supply Co.	1.55	
Shepard, Clarke & Co.	17.50	
Talbot Dyewood & Chem. Co.	6.56	
		411.53
		6,950.99

HEALTH DEPT. “SMALL POX.”

Appropriation	3,297.08	
Receipts	.49	
		3,297.57

Expended

For Provisions, Clothing, Etc.:

App. for Lowell City Hospital, G. G. P.....	251.38	
F. A. Bates	30.40	
John Brady	11.00	
J. S. Brooks	43.77	
Edward Cawley	26.65	
J. J. Doherty & Co.	16.00	
Gilbride's	4.00	
D. J. Hart	22.25	
Merrimack Clothing Co.	15.00	
O'Sullivan Bros. Co.	3.00	
Stanley Coal & Wood Co.	38.00	
J. N. Tarte	480.61	
		942.06

HEALTH DEPT.—“SMALL POX”—Continued

For Physicians and Attendants:

Appropriation for Health Yard Labor	817.75	
Spencer Brown	10.00	
E. G. Livingston	808.00	
City of Lynn	289.44	
Frank McAvinne	284.50	
		<u>2,209.69</u>

For Medicine:

C. E. Carter	75.90	
R. J. Lang & Co.	2.25	
John T. Sparks	9.90	
		<u>88.05</u>

For Sundries:

App. for Public Bldg's, Carpenter, Etc.	4.94	
Edward Ayotte	8.50	
C. B. Coburn Co.	1.90	
Thos. F. Fay	6.00	
H. C. Girard	2.95	
Geo. E. Hutchins	11.50	
Annie Namack	17.00	
J. J. Saunders	6.49	
Saimon Sirk	8.00	
		<u>57.28</u>

3,297.08

Transfer to General Treasury Fund

.49

3,297.57

HEALTH DEPT. “CREMATOR CONSTRUCTION.”

Balance Jan. 1, 1905	10,000.00	
		<u>10,000.00</u>
Expended		
To Decarie Mfg. Co.	10,000.00	
		<u>10,000.00</u>

HEATING CITY HALL AND MEMORIAL BUILDINGS.

Labor

Appropriation	3,000.00	
	<u> </u>	3,000.00

Expended

For Labor, Sundry Persons	2,959.00	
	<u> </u>	2,959.00
Transfer to General Treasury Fund		41.00
		<u> </u>
		3,000.00
		<u> </u>

Fuel

Appropriation	4,300.00	
	<u> </u>	4,300.00

Expended

To Edward Cawley	4,299.43	
	<u> </u>	4,299.43
Transfer to General Treasury Fund		.57
		<u> </u>
		4,300.00
		<u> </u>

Sundries

Appropriation	600.00	
	<u> </u>	600.00

Expended

For Repairs on Heating Apparatus:		
H. R. Baker Mfg. Co.	14.60	
John Blackburn	22.25	
Carroll Bros.	15.40	
Geo. P. Green	6.00	
Samuel Lewis	4.75	
W. H. McElholm	2.15	
Scannell Boiler Wks.	7.00	
Welch Bros.	180.59	
Whittier Mch. Co.	.40	
	<u> </u>	253.14

HEATING CITY HALL AND MEMORIAL BUILDING—Continued

For Oil, Waste, Etc.:		
Adams Hdw. & Paint Co.	.65	
C. B. Coburn Co.	100.73	
Kelty Bros.	.30	
		101.68
For Hardware, Etc.:		
J. C. Bennett	3.50	
E. P. Flanders & Co.	36.00	
H. C. Girard	6.70	
		46.20
For Sundries:		
App. for Public Bldgs., Electric Power	40.58	
Appropriation for School Houses	23.03	
L. A. Derby	78.88	
Keefe Bros.	.10	
R. J. Lang & Son	.30	
Jas. Murkland & Son	48.58	
D. T. Sullivan	1.35	
Henry F. Whiting	1.50	
		194.32
		595.34
Transfer to General Treasury Fund		4.66
		600.00

HUNTINGTON HALL.

Appropriation	750.00	
		750.00
Expended		
To Boston & Main R'd for Rent	625.00	
Transferred to General Treasury Fund	125.00	
		750.00

RIFLE RANGE.

Appropriation	700.00	
		700.00
Expended		
For Labor, Sundry Persons	515.50	
For Targets, Pastors, Etc.:		
Lull & Hartford	58.10	
John McCullough	5.30	
Pratt & Forrest	1.10	
Talbot Dyewood & Chem. Co.	1.13	
Tucke & Parker	8.50	
		589.63
For Telephone and Taxes:		
N. E. Tel. & Tel. Co.	22.40	
Town of Dracut	87.13	
		109.53
		699.16
Transferred to General Treasury Fund		.84
		700.00

INCIDENTALS.

Appropriation	2,800.00	
Additional Appropriation	454.94	
		3,254.94
For Books, Stationery, Printing, Etc.:		
Courier Citizen Co.	97.10	
Dumas & Co.	258.54	
Harry C. Kittredge	1.75	
Lawler Printing Co.	594.00	
Thos. H. Lawler	17.05	
Middlesex Typewriting Co.	70.00	
Lowell Daily Mail	28.51	
Lowell Sun	37.60	
G. C. Prince & Son	421.27	
F. A. M. Tobin	32.50	
		1,558.32

INCIDENTALS—Continued

For Entertainment and Refreshments:

Criterion Dining Rooms	9.00
Frank M. Dowling	11.35
D. L. Page Co.	32.93
Page's Spa	7.00
F. E. Putnam	34.15
Richardson Hotel	14.00
The New American	19.80
Waverly Hotel	217.00
Yorick Club	30.00

 375.23

For Carriage Hire:

Geo. W. Chapman	4.50
O. P. Davis	8.00
A. B. Humphrey	9.00
Keefe & Horan	26.00
T. J. McDermott	20.00
J. F. O'Donnell & Sons	58.70
N. T. Rafferty	4.00
J. H. Sparks	35.00

 165.20

For Sundries:

M. B. Bunker	25.00
Collins & Gallagher	20.00
M. G. Gardner	504.00
A. N. Harmon	6.00
Heinz Electric Co.	5.82
Cyrus W. Irish	330.00
L. E. Knott Apparatus Co.	34.06
Alvin Lawrence	50.00
Mellor & Saunders	20.00
Mdx. Safe Dep. & Trust Co.	50.00
J. J. McManmon	20.00
N. E. Tel. & Tel. Co.	.48
G. A. Wilson & Co.	15.83
Chas. F. Young & Co.	75.00

 1,156.19

 3,254.94

INSURANCE.

Appropriation	2,461.64	
		2,461.64

Expended

To Brown & Dewar	73.78	
Frank M. Brogan	67.00	
F. C. Church	128.78	
Geo. G. Coburn	73.78	
Thos. L. Dickey	83.00	
Jos. F. Donohoe	274.00	
Chas. M. Erskine	36.00	
Arthur L. Gray	56.00	
Geo. D. Kimball	73.78	
Thos. C. Lee & Co.	437.78	
Ezra E. Mansur	73.78	
Geo. E. Metcalf & Co.	73.78	
Henry Miller & Son	73.78	
Frank B. Murphy	73.78	
N. G. Norcross	84.04	
Jos. Peabody, Agent	146.28	
M. J. Sharkey	36.00	
Smith & Cavanaugh	108.00	
E. M. Tucke	283.78	
Graham R. Whidden	73.78	
Herbert A. Wright	36.00	
		2,366.90
		2,366.90
Transferred to General Treasury Fund		94.74
		2,461.64

LAW DEPT.

Salaries

Appropriation	4,824.00	
		4,824.00

LAW DEPT.—Continued

Expended

To James Gilbert Hill, City Solicitor	2,500.00	
Wm. A. Hogan, City Solicitor	500.00	
Appropriation for Police Salaries and Labor Services of:		
M. E. McDonald	1,200.00	
Francis E. Andrews	6.24	
		<u>4,824.00</u>
		<u>4,824.00</u>

Sundries

Appropriation	714.00	
Additional Appropriation	524.94	
Receipts	7.50	
		<u>1,246.44</u>

Expended

For Books, Stationery, Printing, Etc.:		
Buckland Printing Co.	2.50	
Carter's Ink Co.	.38	
Courier Citizen Co.	19.25	
Dumas & Co.	2.00	
H. C. Kittredge	13.00	
Lawyers' Co-operative Pub. Co.	15.00	
Little, Brown & Co.	20.95	
Review & Record Co.	5.00	
G. C. Prince & Son	16.10	
Sampson, Murdock Co.	3.00	
Frank Shepard Co.	4.00	
Edward Thompson Co.	37.50	
F. A. M. Tobin	1.25	
Union Printing Co.	16.80	
		<u>156.73</u>
For Carriage Hire, Telephone and Transportation:		
American Exp. Co.	.90	
O. P. Davis	80.00	
J. A. Gregoire	3.50	
N. E. Tel. & Tel. Co.	15.20	
J. H. Sparks	3.00	
		<u>102.60</u>

LAW DEPT.—Continued

For Sundries:

Francis E. Andrews	1.25	
H. C. Girard	.15	
Middlesex County	44.80	
W. J. Naegle	162.50	
Geo. A. Nelson	5.25	
A. H. Sanborn & Co.	14.00	
Geo. F. Stiles	18.60	
Suffolk County	27.96	
		<u>274.51</u>

For Professional Services and Witness Fees:

James Gilbert Hill	506.00	
Wm. A. Hogan	59.50	
Boyden H. Pillsbury	62.50	
Geo. F. Stiles	84.60	
		<u>712.60</u>
		<u>1,246.44</u>

LIBRARY.

Appropriation	13,000.00	
		<u>13,000.00</u>

Expended

To Trustees of City Library	13,000.00	
		<u>13,000.00</u>

LIGHTING STREETS.

Appropriation	100,195.00	
		<u>100,195.00</u>

LIGHTING STREETS—Continued

Expended

For Gas Lighting:		
Lowell Gas Light Co.	5,758.22	
Welsbach Street Lighting Co. of America ..	19,898.39	
		<u>25,656.61</u>
For Electric Lighting:		
Lowell Electric Light Corp.	63,120.01	
		<u>63,120.01</u>
For Gasolene Lighting:		
Welsbach Street Lighting Co. of America ...	11,197.02	
		<u>99,973.64</u>
Transferred to General Treasury Fund		<u>221.36</u>
		<u>100,195.00</u>

LIGHTING PUBLIC BUILDINGS.

Appropriation	21.00	
Additional Appropriation	10.77	
		<u>31.77</u>
To Lowell Gas Light Co.	31.77	
		<u>31.77</u>

LIGHTING SUNDRIES

Appropriation	1,154.00	
		<u>1,154.00</u>
Expended		
For Labor	1,003.75	
		<u>1,003.75</u>

LIGHTING SUNDRIES—Continued

For Sundries:

Boston & Maine Railroad	20.25	
H. C. Kittredge	2.10	
Thos. H. Lawler	1.35	
Lowell Gas Light Co.	10.55	
G. C. Prince & Son	2.00	
E. A. & A. T. Smith	3.00	
J. H. Sparks	4.00	
Thompson Hardware Co.	1.25	
F. A. M. Tobin	13.20	
Waverly Hotel	3.00	
		<u>60.70</u>

		1,064.45
Transfer to General Treasury Fund		89.55
		<u>1,154.00</u>

LIQUOR LICENSES.

Appropriation	43,000.00	
Additional Appropriation	524.75	
		<u>43,524.75</u>

Expended

To Commonwealth of Massachusetts	43,524.75	
		<u>43,524.75</u>

PARK DEPT.

Salaries and Labor

Appropriation	9,000	
		<u>9,000.00</u>

PARK DEPT.—Continued

Expended

For Salary Chas. A. Whittett, Supt.	1,298.01	
For Labor Sundry Persons	7,606.96	
For Appropriation for Engineering	94.95	
	<u> </u>	8,999.92
		<u> </u>
		8,999.92
Transferred to Treasury Fund		.08
		<u> </u>
		9,000.00
		<u> </u>

Sundries

Appropriation	3,544.00	
Receipts	227.30	
	<u> </u>	3,771.30
		<u> </u>

Expended

For Lumber:		
Amasa Pratt Co.	36.64	
Pratt & Forrest	111.89	
	<u> </u>	148.53
For Pipe, Fittings, Etc.:		
H. R. Barker Mfg. Co.	24.13	
Farrell & Conaton	60.00	
H. L. Gonzales	1.15	
Union Iron Foundry	24.76	
H. H. Wilder & Co.	84.54	
	<u> </u>	194.58
For Teaming:		
John Carr & Sons	32.19	
Edward Cawley	40.50	
P. P. Connors & Co.	85.43	
C. H. Hanson & Co.	120.55	
C. Sullivan	10.00	
	<u> </u>	288.67
For Carriages, Harnesses and Repairs:		
Robert Barris	.75	
Donovan Harness Co.	64.05	
F. B. Hill & Co.	21.30	

PARK DEPT.—Continued

For Carriages, Harnesses and Repairs—Continued		
J. H. Laporte	3.75	
J. T. Williamson	25.35	
		115.20
For Shoeing Horses:		
M. J. Cahill	29.85	
J. J. Donnelly	50.85	
		80.70
For Telephone, Transportation, Etc.:		
American Express Co.	2.25	
N. E. Tel. & Tel. Co.	1.18	
N. Y., N. H. & H. Railroad	.60	
J. H. Sparks	3.00	
		7.03
For Plants, Shrubs, Trees, Loam, Etc.:		
E. Bibeault	82.70	
Botanical Chemical Co.	4.00	
P. Conlon	2.20	
P. P. Connors & Co	53.40	
M. F. Connors	25.17	
P. Conroy	11.80	
J. B. Cover & Co.	4.20	
Hamilton Mfg. Co.	26.75	
J. J. McManmon	100.00	
Schlegel & Fottler Co.	4.20	
Whittett & Co.	187.68	
		502.10
For Lighting:		
Lowell Gas Light Co.	1.44	
Lowell Electric Light Corp.	16.66	
		18.10
For Painters' Supplies:		
Adams Hardware & Paint Co.	18.60	
C. B. Coburn Co.	24.53	
		43.13
For Horses:		
C. H. Hanson & Co.	380.53	
		380.53

PARK DEPT.—Continued

For Hardware:

App. for Sewer Maintenance Sundries	11.07
J. C. Bennett	56.60
Bennett Bros. Co.	10.01
Boutwell Bros.	101.51
E. P. Flanders & Co.	229.57
H. C. Girard	14.18
W. A. Mack & Co.	.95
Smith & Lawrence	.65

424.54

For Stationery, Printing, Etc.:

Butterfield Printing Co.	14.00
Colonial Press	1.00
Dumas & Co.	30.00
R. J. Haight	1.00
B. M. Hutchins	15.00
H. C. Kittredge	4.90
Lawler Printing Co.	91.53
G. C. Prince & Son	32.50
Remington Typewriter Co.	12.70
Sampson Murdock Co.	3.00

205.63

For Hay, Grain, Etc.:

Joseph Bowers	85.40
G. M. Foster	21.14
Fred A. Fox	81.10
Livingston Grain Co.	62.78
Joseph Mullen	131.91
T. J. McDonald	39.16
H. E. Noyes & Son	73.69
Geo. W. Trull	89.70
Paul Vigeant & Co.	36.75
O. D. Wilder	37.62

659.25

For Sundries:

App. for Water Works	59.31
App. for Streets Sundries	4.93
Adams & Co.	1.25
American Shoe Tap Mfg. Co.	5.33
Boston & Northern St. Railway	137.50

PARK DEPT.—Continued

For Sundries—Continued

Edward Cawley	62.35
Doubleday, Page Co.	5.00
H. E. Fletcher	50.07
H. L. Gonzales	17.15
Greenwood Bros.	.90
C. H. Hanson & Co.	51.00
A. N. Harmon	6.05
Peter Henderson	33.10
Catherine Hovey	5.00
John A. Lowell	72.00
Lowell Shoe Repair Co.	2.00
New England Optical Co.	2.50
G. A. Nelson	26.30
A. Parsons	6.80
Joseph Peabody	29.52
Robertson & Co.	1.50
W. A. Sherman	6.00
J. H. Sparks	10.00
Staples Bros. Co.	41.00
D. T. Sullivan	49.85
Tucke & Parker Co.	14.89
Chas. A. Whittett	1.99

.....	703.29
Transferred to General Treasury Fund	.02
	3,771.30

PARK DEPT. "CARE OF TREES."

Appropriation	1,000.00
	1,000.00

Expended

For Labor, Sundry Persons	836.65
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PARK DEPT.—“CARE OF TREES”—Continued

For Sundries:		
App. for Park Sundries	66.00	
J. C. Bennett	22.80	
Butterfield Printing Co.	3.25	
C. B. Coburn Co.	5.90	
E. P. Flanders & Co.	30.90	
H. L. Gonzales	14.55	
F. B. Hill & Co.	5.35	
A. Parsons	2.16	
C. A. Whittett	12.41	
	<u>999.97</u>	
		<u>999.97</u>
Transfer to General Treasury Fund		.03
		<u>1,000.00</u>

PARK DEPT. “MOTHS.”

Balance undrawn Jan. 1, 1905	500.00	
	<u>500.00</u>	
Expended		
For Labor, Sundry Persons	470.37	
For Sundries:		
E. P. Flanders & Co.	4.55	
Golding Mfg. Co.	2.08	
Grant Jewelry Co.	23.00	
	<u>500.00</u>	
		<u>500.00</u>

SUPPRESSION OF MOTHS.

Appropriation	1,000.00	
	<u>1,000.00</u>	
Balance to 1906		1,000.00
		<u>1,000.00</u>

LOWELL CITY HOSPITAL AND ALMSHOUSE.

Salaries

Appropriation	2,700.00	
	<u>2,700.00</u>	<u>2,700.00</u>

Expended

To Chas. E. Donlan, Supt.	2,000.00	
Forster H. Smith, City Physician	700.00	
	<u>2,700.00</u>	<u>2,700.00</u>

Labor

Appropriation	10,000.00	
Additional Appropriation	3,281.38	
	<u>13,281.38</u>	<u>13,281.38</u>

Expended

To Sundry Persons	13,281.38	
..	<u>13,281.38</u>	<u>13,281.38</u>

Grain, Groceries and Provisions

Appropriation	23,000.00	
Receipts	8,121.38	
	<u>31,121.38</u>	<u>31,121.38</u>

Expended

To C. M. Allen	83.34
Armour & Co.	302.50
Bartlett & Shepard	45.60
F. S. Bean & Co.	107.43
Belvidere Drug Store	8.00
F. M. Bill & Co.	812.73
Jas. Boyle & Sons	298.13
G. J. & D. Bradt	54.00
Peter J. Brady	1,014.26
Owen E. Brennen	125.21
Breen Bros.	95.40
Buckley Bros.	166.20
M. Calnin	35.75
C. B. Coburn Co.	11.60

LOWELL CITY HOSPITAL AND ALMSHOUSE—Continued**Expended—Continued**

C. G. Coburn	546.15
Coffey Bros.	2,489.38
Elmer E. Cole	27.77
C. P. Comerford	169.30
F. B. Corson	75.00
Martin Cryan	50.24
Crystal Lake Ice Co.	157.81
W. F. Delehanty	360.14
S. K. Dexter	2,665.75
M. Donovan & Co.	299.36
F. J. Dunn	89.50
T. R. Fahey	1,794.00
P. Fitzgibbons	72.00
E. S. Fitzpatrick	59.38
Fleischman & Co.	148.20
Jos. Flynn	216.00
W. P. Foye	219.77
G. M. Foster	238.81
J. E. Freeman	52.33
Furlong Bros.	11.05
David Gerow	78.15
J. W. Greene	90.67
Frank H. Harrington	150.00
Haynes & Bean	104.71
Jos. S. Herrick	31.00
Herrick Tea Co.	93.00
W. J. Hoare	2.52
W. A. Ingham Co.	649.58
International Stock Food Co.	48.00
J. B. A. Johnson	3.50
Keefe Bros.	173.63
Arthur W. Lang	119.19
R. J. Lang & Co.	.45
Lee Bros.	288.73
Livingston Grain Co.	245.71
Lowell Packing & Prov. Co.	1,885.89
A. L. Macrae	281.70
Mansfield, Witham & Co.	1,435.40
Markham & Co.	14.00

LOWELL CITY HOSPITAL AND ALMSHOUSE—Continued

Expended—Continued

John J. McCann	9.50
John McCullough	150.12
T. J. McDonald	226.68
J. F. McGarvey	5.40
J. McGlinchey	39.52
M. McGlinchey	72.35
T. F. McKay	81.00
D. P. McKenna	2.75
J. McKinley	175.00
McKinley Bros.	77.50
Philip McNulty	37.50
F. J. McSorley	124.45
Jos. Mullen	442.44
D. Murphy	111.70
W. J. Murphy	48.85
Native Beef Co.	70.00
Nelson Morris Co.	256.32
Owen Nerney	31.30
Carl Noyes	90.86
H. E. Noyes & Son	1,500.98
O'Brien Bros.	218.29
O'Donnell Bros.	102.00
M. O'Keefe	7.30
Pawtuckville Cash Grocery	477.91
John J. Payne	95.25
Philbrick & Wood	232.96
G. E. Putnam & Son	1,223.82
Randlett Grocery Co.	68.75
Riverside Cash Market	135.72
Robertson & Bartlett	180.00
J. F. Saunders	91.78
Simpson & Rowland	934.72
E. M. Slayton Co.	46.44
T. A. D. Sullivan & Co.	166.77
Swift & Bailey	3,537.70
Swift & Co.	120.00
Perry D. Thompson, Agent	87.70
Harry L. Timmons	36.00

LOWELL CITY HOSPITAL AND ALMSHOUSE—Continued**Expended—Continued**

C. W. Wilder	598.75	
O. D. Wilder	443.33	
		30,957.33
Transferred to General Treasury Fund		164.05
		<u>31,121.38</u>

Sundries

Appropriation	18,800.00	
Additional Appropriation	2,534.40	
		<u>21,334.40</u>

Expended**For Water, Lighting and Telephone:**

App. for Water Works	1,048.03	
Lowell Electric Light Corp.	423.68	
Lowell Gas Light Co.	750.44	
N. E. Tel. & Tel. Co.	28.56	
		<u>2,250.71</u>

For Fuel:

John Brody	56.21	
Edward Cawley	3,603.71	
Horne Coal Co.	1,947.22	
Joseph Mullen	4.00	
D. T. Sullivan	1,346.70	
		<u>6,957.84</u>

For Clothing, Dry Goods, Etc.:

Bon Marche	131.64	
Boulger Shoe Co.	24.25	
J. L. Chalifoux	251.00	
C. G. Coburn	278.13	
Cook, Taylor & Co.	88.99	
E. Cornack	12.60	
Chas. H. Curry	26.50	
John Drain	38.28	
Patrick Fitzgibbon	57.70	
Gilbride's	382.15	
Jas. E. Gorman	155.25	

LOWELL CITY HOSPITAL AND ALMSHOUSE—Continued**For Clothing, Dry Goods, Etc.—Continued**

John F. Kelly & Co.	242.00	
C. H. Kimball & Co.	72.50	
J. J. Loneyan	45.40	
Lowell One Price Clothing Co.	316.25	
Mass. Reformatory	240.55	
Mass. State Prison	565.80	
Merrimack Clothing Co.	232.80	
O'Donnell Dry Goods Co.	264.87	
O'Sullivan Bros. Co.	13.50	
A. G. Pollard & Co.	91.20	
Putnam & Son	30.00	
J. J. Saunders	8.93	
The Seaside Mills	34.00	
		3,604.29

For Furniture, Repairs, Etc.:

W. F. Devlin	51.00	
J. J. Doherty & Co.	1.56	
Gookin	1.65	
		54.21

For Hardware:

Adams Hardware & Paint Co.	76.41	
J. C. Bennett	12.75	
Boutwell Bros.	4.32	
Owen E. Brennan	18.72	
F. W. Cheney & Co.	79.25	
E. P. Flanders & Co.	127.96	
H. C. Girard	1.74	
N. D. Lafleur	1.85	
J. J. Saunders	4.80	
Thompson Hardware Co.	25.74	
		353.54

For Pipe, Fittings, Etc.:

Carroll Bros.	122.69	
T. Costello & Co.	46.35	
The Dean Steam Pump Co.	.12	
W. F. Devlin	68.60	
Harry S. Drury	38.09	
Farrell & Conaton	2.04	
Chas. E. Gee	18.80	

LOWELL CITY HOSPITAL AND ALMSHOUSE—Continued

For Pipe, Fittings, Etc.—Continued

Geo. P. Green	18.00
W. H. McElholm	36.31
W. McLarney & Co.	80.40
Scannell Boiler Works	3.75
P. F. Welch	239.48
Welch Bros.	100.50

775.13

For Painters' and Electricians' Supplies:

Adams Hardware & Paint Co.	119.74
Sylvester Bean	64.75
Owen E. Brennan	7.65
C. B. Coburn Co.	162.65
L. A. Derby	20.60
Lowell Polish Co.	3.00
H. C. McOsker	70.00
Smith & Lawrence	3.08
Tucke & Parker Co.	15.36

466.83

For Stationery, Printing, Etc.:

Courier Citizen Co.	6.00
Daily Mail Co.	56.75
J. L. Fairbanks & Co.	4.00
Thos. H. Lawler	19.34
Lowell Daily Mail	15.50
G. C. Prince & Son	24.00
Sampson Murdock Co.	3.00
M. G. Wight & Co.	8.75

137.34

For Mason Work and Materials:

Connor Bros.	1.35
Connors Bros. Construction Co.	14.65
D. T. Sullivan	6.00

22.00

For Drugs, Medicines, Etc.:

Belvidere Family Drug Store	9.00
Frank J. Campbell	6.85
Columbian Insecterside Co.	461.67
Concord Drug Co.	36.05
C. A. Daly	68.80

LOWELL CITY HOSPITAL AND ALMSHOUSE—Continued

For Drugs, Medicines, Etc.—Continued

P. Dempsey & Co.	195.69
Ellingwood & Co.	115.50
Falls & Burkinshaw	94.27
Geo. A. Faneuf	2.50
Fred Howard	54.25
J. B. A. Johnson	46.03
R. J. Lang & Co.	113.11
E. T. McEvoy	79.60
Frank E. McNabb	13.25
E. A. McQuade	79.55
A. E. Moors	22.00
National Thermometer Co.	9.00
Partridge & Co.	50.00
W. H. Pearson	2.50
Henry S. Perham	22.23
Plunkett's Pharmacy	55.80
Rochester Distilling Co.	210.92
Seabury & Johnson	1.28
John J. Shea	33.03
A. F. Story & Co.	84.94
Talbot Dyewood & Chem. Co.	148.38
Harry L. Timmons	15.30
Thos. C. Walker	35.00
H. E. Webster Co.	11.55
Zopher Co.	15.00

2,093.05

For Carriages, Harnesses and Repairs:

Am. Waterproof Harness Co.	12.50
Robert Barris	1.50
A. L. Butman	7.85
Donovan Harness Co.	268.00
C. H. Hanson & Co.	80.00
F. B. Hill & Co.	104.20
C. F. Keyes	6.35
P. A. McKenzie	12.60
Henry J. O'Dowd	225.00
Jas. A. Riley	6.25
W. H. Ward	54.85

779.10

LOWELL, CITY HOSPITAL AND ALMSHOUSE—Continued

For Transportation, Etc.:

American Express Co.	2.95	
Boston & Maine Railroad	95.19	
Manchester & Concord Express Co.	.90	
N. Y. & Boston Desp. Exp. Co.	1.10	
N. Y., N. H. & H. Railroad	.44	
		100.58

For Shoeing Horses:

M. J. Cahill	49.50	
Owen J. Carney	36.50	
C. Desmond	32.00	
J. J. Donnelly	44.65	
M. J. Haggerty	1.75	
Henry Reynolds	72.75	
		237.15

For Sundries:

Automatic Time Stamp Co.	6.50	
J. E. Beurk	1.80	
Jas. Boyle & Sons	37.74	
Peter J. Brady	80.15	
Stephen Brennan	46.45	
C. A. Bresnahan	2.00	
Burnham & Davis Lbr. Co.	21.42	
C. B. Coburn Co.	206.45	
C. G. Coburn	149.00	
Elmer E. Coles	102.15	
Cross Awning Co.	90.00	
Crystal Lake Ice Co.	231.49	
Davis & Sargent Lbr. Co.	6.00	
Jos. Dextra	5.40	
W. A. Dickinson	75.42	
J. T. Donehue	11.50	
C. E. Donlan	247.55	
M. Donovan & Co.	26.36	
Duparquet, Herot & Moneuse Co.	245.65	
Empire Ldg. Mch. Co.	50.00	
G. A. Farley	1.00	
Thos. F. Fay	240.00	
W. P. Foye	60.91	
J. E. Freeman	70.00	
J. J. Gallagher	75.00	

-LOWELL CITY HOSPITAL AND ALMSHOUSE—Continued**For Sundries—Continued**

A. R. Gardner	5.00
H. L. Gonzales	11.05
Greenwood Bros.	28.25
Leonard Huntress	5.00
Geo. E. Hutchins	108.80
W. N. Jones	25.00
John F. Kelly & Co.	36.00
E. Kemp	15.00
E. M. Lawler	8.25
Lull & Hartford	3.65
J. J. Mack & Co.	52.92
W. A. Mack & Co.	.70
F. W. Merrill	26.00
John McCullough	1.50
J. J. McManmon	58.56
H. S. McOsler	19.56
Chas. E. Munn	19.00
Jas. Murkland & Son	72.19
W. J. Murphy	13.05
Frank Notini	180.00
O'Brien Bros.	102.55
O'Donnell Bros.	60.00
Henry S. Perham	13.68
Pratt & Forrest	60.39
Amasa Pratt Co.	7.07
Ring Music Co.	5.50
Robertson & Bartlett	187.00
W. A. Sherman	1.50
Simpson & Rowland	24.45
T. A. D. Sullivan	10.76
W. H. Ward	10.45
Wheeler & Wilson	1.50
W. H. Wiggin	28.08
Whitman & Pratt Rendering Co.	108.72
Mitchell, Wing & Co.	5.60
Geo. B. Wright	3.00
Major Wright	92.96
	3,502.63
	21,334.40

PAUPERS OUT-DOOR RELIEF DEPT.

Salaries

Appropriation	3,785.00	
	<u> </u>	3,785.00

Expended

To Martin J. Courtney, Secretary	1,800.00	
Nellie A. Keyes, Clerk	1,000.00	
Wm. H. Gallagher, Clerk	985.00	
	<u> </u>	3,785.00
		<u> </u>

Sundries

Appropriation	700.00	
	<u> </u>	700.00
		<u> </u>

Expended

For Stationery, Printing, Etc.:		
Carter's Ink Co.	.38	
Courier Citizen Co.	5.50	
H. C. Derby	2.35	
Dumas & Co.	2.75	
H. C. Kittredge	2.00	
Thos. H. Lawler	3.35	
Libby Printing Co.	22.50	
G. C. Prince & Son	17.65	
Sampson, Murdock Co.	6.00	
F. A. M. Tobin	15.75	
	<u> </u>	78.23
For Telephone, Transportation, Carriage Hire:		
Boston & Maine Railroad	353.50	
Geo. W. Chapman	1.00	
N. E. Tel. & Tel. Co.	3.63	
J. H. Sparks	4.50	
Western Union Telegraph Co.	2.52	
	<u> </u>	365.15
For Sundries:		
App. for Health Office Sundries	2.50	
M. J. Courtney	126.92	

PAUPERS OUT-DOOR RELIEF—Continued

For Sundries—Continued

C. K. Miller	2.42	
J. H. Sparks	22.15	
		153.99
		597.37
Transferred to General Treasury Fund		102.63
		700.00

GENERAL SUNDRIES

Appropriation	39,048.00	
Additional Appropriation	5,494.54	
Receipts	218.61	
		44,761.15

Expended

For Ambulance Drivers:

G. Bjorkman	743.57	
J. J. Cuff	743.57	
R. W. Eastman	743.57	
J. F. Geoghegan	38.57	
M. J. Gray	38.57	
J. H. Hoar	743.57	
M. F. McDermott	38.57	
J. McGlynn	38.57	
G. B. McKenna	38.57	
A. S. Parke	743.57	
D. Shea	38.57	
O. Smith	743.57	
		4,692.84
For Surgeon		
Patrick E. Sullivan	600.00	
		600.00

GENERAL SUNDRIES—Continued

For Water, Lighting and Telephone:		
App. for Water Works	22.50	
Lowell Gas Light Co.	63.63	
N. E. Tel. & Tel. Co.	39.15	
		125.28
For Hay, Grain, Etc.:		
Coffey Bros.	38.44	
G. M. Foster	23.00	
E. P. Foye	197.50	
T. J. McDonald	175.69	
Jos. Mullen	98.30	
H. E. Noyes & Son	143.55	
Paul Vigeant & Co.	162.56	
O. D. Wilder	18.63	
		857.67
For Repairing, Carriages and Harnesses:		
Am. Waterproof Dressing Co.	1.25	
A. L. Butman	7.50	
M. J. Cahill	8.40	
Donovan Harness Co.	293.20	
F. B. Hill & Co.	205.75	
P. A. McKenzie	109.25	
Henry J. O'Dowd	4.50	
Sawyer Carriage Co.	168.65	
		798.50
For Shoeing Horses:		
M. J. Cahill	52.85	
Owen J. Carney	39.25	
Henry Reynolds	14.00	
		106.10
For Veterinary:		
J. H. Sparks	8.00	
		8.00
For Sundries:		
American Express Co.	.60	
C. B. Coburn Co.	8.68	
Patrick Fitzgibbon	4.00	
Daniel Gage	8.00	
Gilbride's	25.90	
H. C. Girard	27.53	

GENERAL SUNDRIES—Continued

For Sundries—Continued

Geo. P. Green	6.00
Geo. E. Hutchins	3.00
W. A. Ingham Co.	21.82
Keefe Bros.	6.13
Kelty Bros.	.20
H. J. Keyes	8.30
J. J. Lonagan	3.25
Lowell Polish Co.	1.50
W. McLarney & Co.	40.66
McNabb Bros.	37.79
N. E. Steam Laundry	13.56
O'Donnell Dry Goods Co.	5.60
Sampson Murdock Co.	3.00
J. H. Sparks	18.00
Thompson Hardware Co.	3.98

247.50

Dispensary

For Clerk Hire:

Edwin F. Mason	1,042.86
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1,042.86

For Physicians:

A. E. Bertrand	210.34
P. Brunelle	224.04
John F. Boyle	24.66
Chas. M. Frye	199.47
A. J. Halpin	21.66
T. J. Halloran	16.67
J. E. Leary	16.66
C. B. Livingston	183.34
E. M. Murphy	210.37
O. P. Porter	204.00

1,311.21

For Dispensary Supplies:

F. & E. Bailey & Co.	1.00
Belvidere Family Drug Store	61.50
F. H. Butler & Co.	9.25
C. E. Carter	105.64
Carter & Sherburne	10.91
Clinton Mfg. Co.	48.00

GENERAL SUNDRIES—Continued**For Dispensary Supplies—Continued**

Concord Drug Co.	52.17
P. Dempsey & Co.	137.91
P. H. Donohoe & Co.	18.00
A. W. Dows & Co.	6.83
Ellingwood & Co.	62.50
Falls & Burkinshaw	1.00
S. B. A. Johnson	23.39
H. J. Keyes	13.00
P. J. Lang & Co.	285.95
Thos. H. Lawler	6.00
Lawler Printing Co.	7.00
Frank E. McNabb	25.36
E. A. McQuade	15.00
A. E. Moors	57.55
A. F. Storey & Co.	6.25
H. L. Timmons	54.55
F. A. M. Tobin	23.00
Tower's Corner Drug Store	7.95
Wells Bros.	42.65

1,082.36

Interments

For App. Pub. Bldgs., Carpenters, Painters, Etc.:	160.50
App. for School Houses	227.00
Joseph Albert	31.00
A. Archambeault	21.00
Napoleon Bilodeau	14.00
A. H. Bixby & Co.	10.00
J. W. Brooks	50.00
Peter Davey	12.00
John J. Higgins	3.00
Chas. H. Molloy	82.00
J. W. McKenna	7.00
J. J. O'Connell & Co.	5.00
J. H. McDermott	23.00
J. F. O'Donnell & Sons	30.00
John F. Rogers	3.00
Saunders Undertakers Establishment	6.00
Peter H. Savage	27.00
John A. Weinbeck	10.00

721.50

GENERAL SUNDRIES—Continued

Support out of Almshouse, Cities

To City of Beverly	355.30
City of Boston	583.98
City of Cambridge	4.45
City of Chelsea	68.21
City of Fall River	265.26
City of Haverhill	50.60
City of Holyoke	105.95
City of Lawrence	606.80
City of Marlboro	3.33
City of New Bedford	59.00
City of Newburyport	185.00
City of North Adams	49.47
City of Salem	240.94
City of Somerville	9.00
City of Springfield	2.18
City of Woburn	5.45
City of Worcester	152.92
Town of Andover	67.60
Town of Avon	207.00
Town of Ayer	39.00
Town of Blackstone	165.25
Town of Chelmsford	108.00
Town of Clinton	20.20
Town of Dracut	33.01
Town of Methuen	25.50
Town of Peabody	63.30
Town of Provincetown	3.86
Town of Sturbridge	207.29

3,687.85

Hospitals, Etc.

To Hospital Cottages for Children	344.47
Lowell Hospital Association	86.71
Mass. General Hospital	28.50
Mass. Hospital for Epileptics	890.50
Mass. School for Feeble Minded	240.47
Mass. State Sanitarium	156.62
Perkins Institute and Mass. School for Blind	74.39
Sisters of Charity, Lawrence	919.38

GENERAL SUNDRIES—Continued

Hospitals, Etc.—Continued

For Hospital Cottages for Children—Continued

Sisters of Charity, Salem	134.40
St. John's Hospital	2,442.02
St. John's Industrial School	120.00
St. Peter's Orphan Asylum	1,672.13
Working Boys' Home	16.00

7,125.59

Commonwealth

To Commonwealth of Massachusetts	533.21
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533.21

Cash Allowances

To Sundry Persons, cash	5,679.25
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5,679.25

Orders

For Groceries, Provisions, Fuel, Etc.:

To Sundry Persons, orders	11,546.88
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Wood Yard

For Fuel:

F. H. Farmer	121.63
D. Gage	72.37
A. Leblanc	454.25
Jos. Mullen	1,405.68
D. A. Murphy	52.15
E. W. Trull	252.77

2,358.85

For Shoeing:

M. J. Cahill	3.65
Owen J. Carney	34.25
Henry Reynolds	40.75

78.65

For Sundries:

C. B. Coburn Co.	.95
Gilmore Electric Co.	160.00
H. C. Girard	1.65
H. L. Gonzales	16.50
Lowell Electric Light Corp.	64.72

243.82

GENERAL SUNDRIES—Continued

Wood Yard—Continued

For Labor:

Sundry Persons	1,248.00	
		1,248.00

For Sundries:

Boston & Maine Railroad	20.40	
Boulger Shoe Co.	10.50	
Buckland Printing Co.	80.00	
Frank Dennigan	9.00	
R. J. Flemings	1.10	
Anna Freeman	206.93	
Dora Gould	34.85	
Lawler Printing Co.	71.75	
Lowell Shoe Repair Co.	2.15	
Bridget Lynch	110.00	
Mary Lynch	20.00	
Manchester & Concord Exp. Co.	.20	
J. N. Marston	70.00	
Merrimack Clothing Co.	14.30	
W. M. Morrison	1.25	
McGanoran Bros.	4.50	
W. M. McLarney & Co.	5.45	
N. E. Tel. & Tel. Co.	.25	
O'Sullivan Bros.	2.60	
		665.23
		44,761.15

BOARD OF POLICE.

Salaries

Appropriation	5,000.00	
		5,000.00

BOARD OF POLICE—Continued

To Commissioners:		
Frank W. Dow, Chairman	1,200.00	
Fisher H. Pearson	1,000.00	
Laforest Beals	1,000.00	
		<u>3,200.00</u>
To Clerk:		
Joseph Smith	1,800.00	
		<u>1,800.00</u>
		<u>5,000.00</u>

POLICE DEPT.

Salaries and Labor

Appropriation	133,149.91	
Receipts	2,203.75	
		<u>135,353.66</u>

Expended

To Wm. B. Moffitt, Supt.	2,000.00	
Redmond Welch, Jr., Deputy Supt.	1,500.00	
Wm. R. Kew, Deputy Supt.	1,500.00	
Police Officers	124,188.81	
Police Pensions	669.08	
Michael J. Burns, Electrician	1,500.00	
John E. Maguire, Messenger	262.50	
John J. Pindar, Messenger	640.00	
Lilly S. Cutler, Stenographer	624.00	
		<u>132,884.39</u>
Transfer to General Treasury Fund		2,469.27
		<u>135,353.66</u>

POLICE DEPT.—Continued

Sundries

Appropriation	6,000.00	
Additional Appropriation	87.73	
Receipts	2.50	
		6,090.23

Expended

For Water, Lighting and Telephone:		
App. for Water Works	149.88	
Lowell Electric Light Corp.	280.25	
Lowell Gas Light Co.	310.76	
N. E. Tel. & Tel. Co.	304.45	
Western Union Telegraph Co.	7.36	
		1,052.70
For Hardware:		
Am. Steel & Wire Co.	12.51	
Boutwell Bros.	12.34	
E. P. Flanders & Co.	11.22	
H. C. Girard	79.81	
Spencer J. Steinmetz	3.82	
Thompson Hardware Co.	14.75	
		134.45
For Fuel:		
J. F. Brennan	3.00	
Edward Cawley	604.43	
		607.43
For Pipe, Fittings, Etc.:		
Middlesex Machine Co.	7.67	
P. F. Welch	34.25	
Welch Bros.	147.90	
		189.82
For Station Supplies:		
G. J. & D. Bradt	26.60	
Breen Bros.	.95	
C. B. Coburn Co.	15.57	
Ellingwood & Co.	10.65	
Frank J. Green	2.50	
W. A. Maguire & Co.	3.00	
C. H. McEvoy	.70	

POLICE DEPT.—Continued**For Station Supplies—Continued**

F. J. McSorley	5.40
J. F. Morrison	6.25
Simpson & Rowland	.58
Talbot Dyewood & Chem. Co.	166.78
Mitchell, Wing & Co.	3.75

 242.73
For Stationery, Printing, Advertising, Etc.:

Auto List Pub. Co.	2.00
Beck Duplicator Co.	8.50
Buckland Printing Co.	36.00
Carter's Ink Co.	1.25
Courier Citizen Co.	219.50
Dumas & Co.	42.50
Lepine & Co.	3.15
Library Bureau	12.16
Lowell Daily Mail	12.00
Lowell Sun	10.00
McMillan Book Co.	13.50
Chas. E. Perry & Co.	90.00
G. C. Prince & Son	188.74
Sampson Murdock Co.	12.00
Smith Premier Typewriter Co.	92.00

 743.30
For Cloth, Insignia, Etc.:

E. P. Flanders & Co.	19.00
Rose Lipp	6.00
Raphael Masstrankialo	80.85
O'Donnell Dry Goods Co.	.54
A. G. Pollard & Co.	2.97
N. Soroghan	2.10
Waterbury Button Co.	45.00
Wendall, Fay & Co.	272.31

 428.77
For Furniture, Repairing, Etc.:

John J. Doherty & Co.	10.00
Gookin Bros. Co.	56.00
Gookin Furniture Co.	2.70

 68.70

POLICE DEPT.—Continued

For Hay, Grain, Etc.:

J. B. Cover & Co.	253.14
G. M. Foster	317.35
Samuel P. Hadley	15.84
T. J. McDonald	21.23
O. D. Wilder	3.80

611.36

For Carriages, Harnesses and Repairing:

Am. Waterproof Harness Co.	3.75
Robert Barris	22.10
Donovan Harness Co.	19.00
F. B. Hill & Co.	3.50
J. H. Laporte	38.15
Salois & Leath	181.15

267.65

For Shoeing Horses:

M. J. Cahill	19.25
Owen J. Carney	26.50
John J. Donnelly	56.85
J. F. O'Donnell & Sons	2.00
Salois & Leith	8.58

113.18

For Transportation, Carriage Hire, Etc.:

American Express Co.	5.70
B. & M. Railroad	21.44
Conway Transfer Co.	6.00
O. P. Davis	12.00
Manchester & Concord Exp. Co.	.75
N. Y. & Boston Desp. Exp. Co.	3.90
Stanley Transportation Co.	1.50

51.29

For Sundries:

W. P. Brazer & Co.	23.10
Caswell Auto Co.	5.00
Geo. Campbell	6.00
Chase Shawmut Co.	14.70
C. B. Coburn Co.	2.30
Crown Studio	19.50
W. E. Decrow	260.73
L. A. Derby	8.78
C. M. Dickey	8.50

POLICE DEPT.—Continued**For Sundries—Continued**

Chas. S. Dodge	200.00	
Electric Gas Lighting Co.	54.65	
F. M. Ferrin	90.80	
Edw. Field	6.00	
Fred F. Flynn	6.00	
John Flynn	16.00	
D. Gage	54.75	
E. G. Gannon	4.00	
Thos. J. Goyette	25.00	
C. H. Hanson & Co.	264.00	
L. W. Hawkes & Co.	2.50	
M. M. Hayden	6.30	
Chas. Howe	10.00	
Geo. E. Hutchins	3.45	
J. W. Jones	68.00	
Kelty Bros.	.35	
C. H. Kimball & Co.	15.50	
Alvin Lawrence	.50	
Rose Lipp	24.29	
J. S. Marion	33.00	
McNabb Bros.	30.49	
F. J. McSorley	7.92	
W. B. Moffitt	84.59	
C. W. H. Moulton	12.25	
M. J. Murphy	6.00	
N. E. Optical Co.	.75	
W. A. Sherman	3.00	
Jos. Flynn	2.60	
J. H. Sparks	14.00	
Stromberg Carleson Tel. Co.	4.75	
The C. McIntire Co.	4.00	
Thompson Hardware Co.	100.00	
Tucke & Parker	15.00	
W. H. Ward	8.30	
Waverly Hotel	4.00	
H. D. Wheeler, Agt.	47.00	
Wm. Zimmer	.50	
		1,578.85
		6,090.23

POLICE DEPT.—UNDERGROUND WIRES.

Balance Jan. 1, 1905	727.19	
	<u> </u>	727.19
Expended		
To N. E. Tel. & Tel. Co.	80.00	
Salois & Leith	2.00	
	<u> </u>	82.00
Balance to 1906		645.19
		<u> </u>
		727.19

PUBLIC BUILDINGS DEPT.

Salaries		
Appropriation	2,736.00	
	<u> </u>	2,736.00
Expended		
To John J. O'Connor, Supt.	1,800.00	
Jos. F. Roarke, Clerk	936.00	
	<u> </u>	2,736.00
Janitor Police Station		
Appropriation	912.50	
	<u> </u>	912.50
Expended		
To James Donohue	912.50	
	<u> </u>	912.50
Asst. Janitor Police Station		
Appropriation	477.00	
	<u> </u>	477.00
Expended		
To Sundry Persons	477.00	
	<u> </u>	477.00

PUBLIC BUILDINGS DEPT.—Continued

Janitor Memorial Hall

Appropriation	702.00	
	<u> </u>	702.00

Expended

To John Quimby	702.00	
	<u> </u>	702.00

Carpenters, Painters, Etc.

Appropriation	8,239.00	
Additional Appropriation	3,502.47	
Receipts	940.25	
	<u> </u>	12,681.72

Expended

To Sundry Persons for Labor	12,676.71	
	<u> </u>	12,676.71

Transferred to General Treasury Fund		12,676.71
		<u> </u>
		5.01

12,681.72

Electric Power

Appropriation	254.00	
Receipts	110.08	
Additional Appropriation	2.31	
	<u> </u>	366.39

Expended

To Lowell Electric Light Corp.	366.39	
	<u> </u>	366.39

Board of Horses

Appropriation	1,305.00	
	<u> </u>	1,305.00

Expended

To O. P. Davis	260.70
A. B. Humphrey	218.42
Morse Coach Co.	251.15

PUBLIC BUILDINGS DEPT.—Continued

Expended—Continued

For Board of Horses—Continued

T. J. McDermott	42.14	
J. H. Sparks	523.46	
		1,295.87

1,295.87

Transferred to General Treasury Fund

9.13

1,305.00

Work not done by Dept.

Appropriation	4,500.00	
Additional Appropriation	1,587.31	
		6,087.31

6,087.31

Expended

For Plumbing, Pipe, Fittings, Etc.:

H. R. Barker Mfg. Co.	543.76
John H. Barry & Co.	180.15
John Blackburn	69.15
E. J. Carroll & Co.	158.28
Carroll Bros.	64.79
T. Costello & Co.	166.80
Daniel Cushing & Co.	10.10
Jas. D. Danahy	307.99
Harry S. Drury	35.31
E. F. Farrell	45.52
Farrell & Conaton	305.25
Chas. E. Gee	4.30
Geo. P. Green	64.05
Jos. Harvey	18.04
C. F. Hoisington	41.07
Arthur P. Knapp	166.31
D. J. Leary	356.20
W. A. Mack & Co.	136.66
Scannell Boiler Works	109.52
Welch Bros.	232.56
Whittier Machine Co.	266.13
H. H. Wilder & Co.	222.15

3,504.05

PUBLIC BUILDINGS DEPT.—Continued

For Plastering, Roofing, Concrete, Material, Etc.:		
B. F. Crosby & Co.	16.59	
Philip Ginty	70.16	
P. O'Hearn	23.97	
C. F. Hoisington & Co.	27.01	
W. A. Mack & Co.	36.07	
Geo. H. Staples	42.93	
Staples Bros.	24.47	
John A. Simpson	181.60	
E. A. & A. T. Smith	276.00	
J. H. Walker	10.35	
		709.15
For Hardware, Etc.:		
H. C. Girard	10.88	
Thompson Hardware Co.	110.00	
		120.88
For Carriages, Harnesses and Repairs:		
A. L. Butman	34.45	
F. B. Hill & Co.	86.85	
P. A. McKenzie	55.45	
Sawyer Carriage Co.	18.73	
J. H. Sparks	.70	
		196.18
For Shoeing Horses:		
M. Barron & Co.	26.40	
Jas. Blakely	29.55	
Owen J. Carney	13.75	
A. D. Mitten	49.55	
Henry Reynolds	43.00	
		162.25
For Painters' and Electricians' Supplies:		
L. A. Derby	16.97	
Harry F. Harding	67.25	
Lowell Polish Co.	5.00	
Tucke & Parker Co.	65.75	
		154.97
For Sundries:		
App. for Water Works	3.45	
App. for Parks, Sundries	12.13	

PUBLIC BUILDINGS DEPT.—Continued

For Sundries—Continued

American Express Co.	1.30	
R. E. Bell	40.00	
Richard Bray	200.00	
Cornelius Cassidy	51.75	
Patrick Cogger	63.00	
Chas. P. Conant	12.00	
P. P. Connors & Co.	47.25	
John Fernald	104.83	
Josiah Gates & Sons	1.88	
H. C. Girard	10.85	
C. H. Hanson & Co.	6.25	
A. B. Humphrey	1.00	
Jas. F. Kelty	2.50	
H. F. McLean	47.40	
Jos. Mullen	36.00	
N. E. Tel. & Tel. Co.	1.36	
Samuel O'Brien	385.00	
Pratt & Forrest	3.45	
D. C. Sabourin	10.00	
C. P. Salls	135.00	
W. A. Sherman	3.00	
J. H. Sparks	13.00	
St. John's Hospital	27.93	
Stanley Transportation Co.	4.00	
Wm. Zimmer	15.50	
		<u>1,239.83</u>
..		<u>6,087.31</u>

Materials

Appropriation	3,800.00	
Additional Appropriation	1,125.95	
Receipts	360.75	
		<u>5,286.70</u>

Expended

For Hardware:

Adams Hardware & Paint Co.	110.91
H. R. Barker Mfg. Co.	1.28

PUBLIC BUILDINGS DEPT.—Continued

For Hardware—Continued

W. T. S. Bartlett	22.30
Owen E. Brennan	2.64
F. W. Cheney & Co.	7.60
E. P. Flanders & Co.	47.45
H. C. Girard	58.87
N. D. Lafleur	2.90
W. A. Mack & Co.	9.00
P. H. Savage	78.08
Smith & Lawrence	17.55
Thompson Hardware Co.	140.54
Welch Bros.	2.52

501.64

For Lumber:

Burnham & Davis Lumber Co.	194.87
Davis & Sargent Lumber Co.	74.00
Chas. E. Howe & Co.	103.05
Amasa Pratt Co.	705.80
Pratt & Forrest	551.20
Wm. H. Wiggin	551.55

2,180.47

For Paints, Oils, Etc.:

Adams Hardware & Paint Co.	186.19
S. Bean	187.30
C. B. Coburn Co.	571.16
P. Dempsey & Co.	113.92
Dwyer & Co.	114.75
A. L. Kittredge & Co.	23.00
Lowell Polish Co.	1.50

1,197.82

For Stationery, Printing, Etc.:

Carter's Ink Co.	.38
Courier Citizen Co.	36.75
Dumas & Co.	6.75
Thos. H. Lawler	13.15
Lawler Printing Co.	5.25
Osmond Long	6.10
G. C. Prince & Son	4.80
Sampson Murdock Co.	3.00
The Old Corner Book Store	.55

76.73

PUBLIC BUILDINGS DEPT.—Continued

For Sundries:

App. for Water Works	26.10	
H. R. Barker Mfg. Co.	17.33	
Boston & Maine Railroad	40.00	
A. L. Butman	5.00	
Carroll Bros.	3.48	
Chelmsford Foundry Co.	2.25	
T. Costello & Co.	6.00	
Donovan Harness Co.	7.00	
Farrell & Conaton	11.63	
C. H. Hanson & Co.	183.50	
C. F. Hoisington & Co.	20.82	
Gilbride's	12.34	
W. A. Ingham Co.	4.00	
Keefe Bros.	2.40	
Kelty Bros.	1.05	
J. J. Maguire	2.00	
O'Donnell Dry Goods Co.	24.12	
G. C. Prince & Son	3.50	
St. John's Hospital	80.00	
J. H. Sparks	12.45	
D. T. Sullivan	146.80	
Taylor Roofing Co.	3.00	
Tucke & Parker Co.	.75	
Waverly Hotel	62.00	
Welch Bros.	102.65	
H. F. Whiting	9.54	
		789.71
		4,746.37
Transferred to General Treasury Fund		540.33
		5,286.70

Painting City Hall

Appropriation	1,000.00	
		1,000.00

PUBLIC BUILDINGS DEPT.—Continued

Expended

For Labor, Sundry Persons	720.61	
App. Public Buildings Materials	42.06	
Adams Hardware & Paint Co.	51.67	
Sylvester Bean	85.17	
Owen E. Brennan	44.10	
C. B. Coburn Co.	37.65	
Kelty Bros.	.50	
A. L. Kittredge Co.	17.90	
Thompson Hardware Co.	.25	
		999.91
Transferred to General Treasury Fund		.09
		<u>1,000.00</u>

Repairing Palmer Street Engine House

Appropriation	1,000.00	
		<u>1,000.00</u>

Expended

For Labor, Sundry Persons	413.46	
App. for School Houses	15.63	
B. & M. Railroad	.25	
T. Costello & Co.	173.32	
Lynn Stall Co.	202.85	
W. A. Mack & Co.	1.67	
Pratt & Forrest	183.28	
Taylor Roofing Co.	4.94	
Thompson Hardware Co.	4.66	
		<u>1,000.00</u>

City Farm Repairs

12 Double Windows hung in Female Hospital:		
Appropriation	240.00	
		<u>240.00</u>

Expended

For Labor, Sundry Persons	161.54	
App. Public Buildings, Carpenters, Etc.	31.61	
App. Public Buildings, Materials	25.85	
App. School Houses	9.02	
Adams Hardware & Paint Co.	9.18	
Thompson Hardware Co.	2.80	
		<u>240.00</u>

PUBLIC BUILDINGS DEPT.—Continued**City Farm Repairs—Continued**

16 New Windows in Male Dining Room:

Appropriation	160.00	
		160.00

Expended

For Labor, Sundry Persons	108.38	
App. Public Buildings, Carpenters	18.74	
App. Public Buildings, Materials	3.50	
App. School Houses	16.93	
C. B. Coburn Co.	12.45	
		160.00

New Sheathing Door from Barn Yard to Hospital Yard:

Appropriation	10.00	
		10.00

Expended

For Labor, Sundry Persons	10.00	
		10.00

New Floor in Cow Stable

Appropriation	300.00	
		300.00

Expended

For Labor, Sundry Persons	159.39	
App. for School Houses	1.97	
Adams Hardware & Paint Co.	2.44	
E. P. Flanders & Co.	6.60	
Pratt & Forrest	58.33	
Thompson Hardware Co.	1.78	
W. H. Wiggin	69.49	
		300.00

Refrigerator Repairs

Appropriation	250.00	
		250.00

Expended

For Labor, Sundry Persons	120.41	
App. for Public Buildings, Carpenters	18.25	
E. P. Flanders & Co.	2.30	

PUBLIC BUILDINGS DEPT.—Continued

Refrigerator Repairs—Continued

For Labor, Sundry Persons—Continued

C. T. Hoisington & Son	25.44	
Pratt & Forrest	48.01	
Thompson Hardware Co.	15.93	
W. H. Wiggin	19.66	
		250.00

Two New Doors

Appropriation	20.00	
		20.00

Expended

For Labor, Sundry Persons	13.44	
App. for School Houses	1.68	
Adams Hardware & Paint Co.	4.88	
		20.00

Electric Wiring

Appropriation	250.00	
		250.00

Expended

For L. A. Derby	250.00	
		250.00

Screens for Hospitals

Appropriation	115.00	
		115.00
For Labor, Sundry Persons	91.46	
App. Public Buildings, Carpenters	19.72	
School Houses	2.26	
W. T. S. Bartlett	1.56	
		115.00

Taking Gratings from Female Hospital:

Appropriation	100.00	
		100.00
For Labor, Sundry Persons	93.97	
App. for School Houses	6.03	
		100.00

SCHOOLS.

Appropriation	197,000.00	
Additional Appropriation	112,228.84	
Receipts	30.00	
		<u>309,258.84</u>

Expended

A. K. Whitcomb, Supt.	3,000.00	
Truant Officers	4,100.00	
Assistants in Superintendent's Office	1,263.75	
		<u>8,363.75</u>

For Teachers:

In High School	37,503.00	
Grammar Schools	84,846.77	
Primary Schools	71,567.04	
Training School	11,790.56	
Kindergarten	12,502.75	
Drawing	1,497.00	
Music	1,906.50	
Sewing	800.00	
Nature Study	40.00	
		<u>222,453.62</u>

For Books:

Allyn & Bacon	7.50
American Book Co.	1,188.84
D. Appleton & Co.	58.55
Atkinson, Mentzer & Glover	22.35
Edward E. Babb & Co.	3,964.35
T. H. Castor & Co.	18.75
Educational Publishing Co.	21.00
George A. Ferguson	1.20
Ginn & Co.	1,872.77
Harper Bros.	29.00
D. C. Heath & Co.	697.23
Houghton, Mifflin Co.	18.49
J. B. Lippincott Co.	20.00
Little, Brown & Co.	2.00
Longmans, Green & Co.	2.35
Maynard, Merrill & Co.	131.28
G. & C. Merriam Co.	27.20
W. L. Musick Pub. Co.	1.20

SCHOOLS—Continued**For Books—Continued**

McKinley Publishing Co.	2.13
Isaac Pitman & Sons	11.54
Rand, McNally & Co.	23.60
Richardson, Smith & Co.	195.57
Benjamin H. Sanborn & Co.	10.00
Silver, Burdett & Co.	591.41
Christopher Sower Co.	69.20
The Practical Text Book Co.	.84
Thompson, Brown & Co.	52.66

9,041.01

For Blank Books, Stationery, Printing, Etc.:

Amberg File & Index Co.	4.35
American Bank Supply Co.	49.25
Baker Printing Co.	94.50
Beal Press	.50
Milton Bradley Co.	938.71
Buckland Printing Co.	23.00
Butterfield Printing Co.	456.30
Carter, Rice & Co.	34.49
Carter's Ink Co.	.38
Clinton Mfg. Co.	16.30
Courier Citizen Co.	375.10
Davis Press	11.00
Joseph A. Davis	15.00
Dumas & Co.	314.40
G. J. Esselin	1.80
F. J. Flemings	193.42
H. P. Graves	18.90
J. L. Hammett Co.	2.25
Holden Patent Book Cover Co.	216.25
C. F. Hatch Co.	21.91
Geo. F. King & Co.	4.00
H. C. Kittredge	4.40
Thomas H. Lawler	697.26
A. F. Lewis Mfg. Co.	8.00
Libby Printing Co.	103.99
Osmond Long	168.00
Lowell Sun	1.75
Lowell Daily Mail	4.50
A. E. Martel	12.00

SCHOOLS—Continued**For Blank Books, Stationery, Printing, Etc.—Continued**

Bunkio Matsuki	1.91
Oxford University Press	1.37
G. C. Prince & Son	1,912.34
Isaac Pitman & Sons	16.70
Smith Premier Typewriter Co.	5.17
The Perry Pictures Co.	1.00
Sampson Murdock Co.	12.00
Sunday Telegram	2.63
F. A. M. Tobin	3.75
Thorpe & Martin Co.	5.75
Underwood Typewriter Co.	21.83
Union Printing Co.	49.00
M. G. Wight & Co.	778.22

6,603.38

For Hardware, Etc.:

Adams Hardware & Paint Co.	35.05
Alton Brush Co.	12.50
W. T. S. Bartlett	25.60
J. C. Bennett	26.82
Boutwell Bros.	16.88
John Callaghan	20.40
F. W. Cheney & Co.	14.30
E. P. Flanders & Co.	10.50
H. C. Girard	76.70
C. F. Hoisington & Son	51.90
Keystone Wire Co.	12.75
N. D. Lafleur	2.88
W. A. Mack & Co.	3.00
Pevey Bros.	1.55
J. J. Saunders	10.80
Thompson Hardware Co.	56.14
H. H. Wilder & Co.	.75

378.52

Repairing Electrical Apparatus:

A. W. S. Davis	70.82
L. A. Derby	9.75
Harry F. Harding	15.62
W. C. Hinkley	40.25
New Electrical Supply Co.	85.39
Tucke & Parker Co.	607.92

829.75

SCHOOLS—Continued**For Painters' Supplies:**

Adams Hardware & Paint Co.	18.58
Sylvester Bean	3.37
C. B. Coburn Co.	182.82
Hersey Mfg. Co.	8.00
A. L. Kittredge & Co.	199.55
Lowell Polish Co.	3.00
Bunkio Matsuki	2.53
W. M. Morrison	2.50
Phoenix Oil Co.	27.03
Smith & Lawrence	.20

447.58

For Laboratory Supplies:

Bausch & Lomb Optical Co.	48.53
Carleton & Hovey	.60
P. Dempsey & Co.	2.75
Eisner & Amend	40.11
L. C. Knott Apparatus Co.	308.41
R. J. Lang & Co.	1.50
Rumford Supply Co.	1.80
Talbot Dyewood & Chem. Co.	29.92
H. E. Webster Co.	15.00
West Disinfecting Co.	8.75

457.37

For Furniture, Cloth, Etc.:

App. for School Houses	88.81
Adams & Co.	2.25
Sylvester Bean	119.30
Bon Marche	20.20
Patrick Brady	14.25
C. B. Coburn Co.	.54
Cook, Taylor & Co.	18.00
Wm. F. Devlin	2.25
Gardner Bros.	6.00
Gilbride's	15.78
Gookin Bros.	198.00
Gookin Furniture Co.	216.75
Thos. Hannafin	2.00
Geo E. Hutchins	10.80
A. L. Kittredge & Co.	95.02
Geo. E. Mahoney	7.00

SCHOOLS—Continued**For Furniture, Cloth, Etc.—Continued**

Clarence Mahoney	11.85
R. T. Moore	30.00
O'Donnell Dry Goods Co.	112.31
A. E. O'Heir	45.00
A. G. Pollard & Co.	139.70
H. C. McOsker	19.90
Robertson & Co.	44.80
Jas. Stanley	10.00
W. R. Waterman	23.50

1,254.01

For Music:

Ethel H. Church	17.00
Hibbard's Orchestra	18.50
J. H. Jeannotte	60.00
Lowell Military Band	75.00
Middlesex Orchestra	41.00
Gladys A. Whitmore	18.00

229.50

For Musical Supplies:

Peter Gallagher	10.00
Ring Music Co.	30.10
M. Steinert & Sons Co.	4.40

44.50

For Repairing Carriages, Harnesses, Etc.:

F. B. Hill & Co.	57.15
G. S. Rutledge & Co.	2.65
Sawyer Carriage Co.	68.25
J. H. Sparks	35.45
Jas. Stanley	2.00

165.50

For Board of Horses and Shoeing:

J. H. Sparks	522.96
J. J. Donnelly	51.80

574.76

For Fuel:

John Brady	276.50
Patrick Brady	52.50
J. T. Brennan	225.00
Edw. Cawley	20,168.84

SCHOOLS—Continued**For Fuel—Continued**

Horne Coal Co.	6.88
Jos. Mullen	6.40
Frank Riley	295.00
D. T. Sullivan	21.00

21,052.12

For Water, Lighting, Power and Telephone:

App. for Water Works	1,106.64
Lowell Electric Light Co.	2,159.56
Lowell Gas Light Co.	171.68
N. E. Tel. & Tel. Co.	40.01

3,477.89

For Transportation, Carriage Hire, Etc.:

Am. Express Co.	37.47
B. & M. Railroad	1.38
Boston & Northern Street Railway	150.00
Hill Transfer Co.	86.55
Manchester & Concord Express Co.	19.25
Meserve's Lowell & Boston Exp. Co.	1.35
N. Y. & Boston Desp. Exp. Co.	6.30
N. Y., N. H. & H. Railroad	1.27
J. H. Sparks	12.00
Stanley Transportation Co.	2.00

317.57

For Sundries:

App. for School Houses	3,027.28
App. for Public Buildings, Material	289.34
App. for Public Buildings, Carpenters, Etc. ..	636.24
H. R. Barker Mfg. Co.	2.15
Wm. C. Bates	25.00
F. M. Bill & Co.	39.00
Milton Bradley Co.	7.50
Patrick Brady	6.00
Breen Bros.	.14
C. H. Bowers	20.00
J. Boyle & Sons	.60
E. J. Carroll & Co.	15.72
Columbia Refining Co.	4.00
C. B. Coburn Co.	18.14
C. H. Chadwick & Co.	4.50

SCHOOLS—Continued**For Sundries—Continued**

Clinton Mfg. Co.	4.60
J. J. Cluin & Co.	87.00
Cook, Taylor & Co.	.90
Cross Awning Co.	10.75
J. N. Cook	2.50
E. S. Colton, Jr.	52.20
J. E. Donnelly	8.90
Gertrude Edmund	59.75
Thos. H. Elliott	25.00
Irvin A. Foote	138.00
C. H. Foster	50.00
Fay Bros. & Hosford	125.00
D. W. Fisher & Co.	8.00
F. J. Flemings	5.35
J. A. Filion	1.50
Furlong Bros.	.28
Frye & Crawford	.30
Michael Finnegan	1.25
Greenwood Bros.	4.65
Louis Grunewald	8.00
D. Gerow	.50
H. L. Gonzales	2.34
Grant Jewelry Co.	18.00
R. A. Griffiths	3.00
Miss Hard	3.00
C. F. Hatch Co.	12.20
E. F. Hathaway	.75
Patrick Hunt	6.00
Geo. E. Hutchins	.30
W. A. Ingham Co.	7.80
F. E. Johnson Co.	15.00
Edw. Judge	4.00
Kelty Bros.	2.65
C. H. Kimball & Co.	5.20
C. H. Locke	.52
D. Lovejoy & Son	1.50
Lowell Wall Paper Co.	70.40
John F. Mack	30.00
W. L. Mason	.32

SCHOOLS—Continued~~**PUBLIC BUILDINGS DEPT.—Continued**~~**For Sundries—Continued**

Merrimack Mfg. Co.	100.00
Middlesex Woman's Club	25.00
Middlesex County Truant School	3,036.88
Jas. Murkland & Son	.60
Edna F. McDonald	2.50
McNabb Bros.	6.24
McKissock Carpet Cleaning Co.	3.10
W. A. Owen	10.00
Rowena Palmer	25.00
A. Parsons	4.35
H. G. Patterson	.60
Pavyer Printing Machine Works	6.00
Phonographic Institute Co.	.80
Pratt & Forrest	1.60
O. B. Randlett	68.75
A. L. Ready & Son	45.00
E. W. A. Roades	12.00
John Scott	22.50
Jas. A. Shanley	24.15
Jas. Stanley	26.50
W. W. Stetson	70.00
J. H. Sparks	15.50
F. R. Strout	2.40
Geo. F. Sturtevant	16.50
The Ingalls Co.	88.25
Geo. E. Vincent	75.00
Chas. Wheeler	10.80
Mrs. N. L. Wheeler	14.95
A. C. Wheelock	216.00
Henry F. Whiting	2.40
Whittet & Co.	2.35
W. H. Wiggin	37.13
Yale & Towne Mfg. Co.	4.58
C. Zimmer	15.55
W. Zimmer	37.45

8,903.45

Evening Schools:

For Services of Sundry Persons as Teachers ...	16,633.00
Janitors	2,105.00

18,738.00

SCHOOLS—Continued

~~PUBLIC SCHOOLS—FIELD~~			~~Continued~~
For Books, Stationery, Printing, Etc.:			
Edw. E. Babb & Co.	35.30		
Baker Printing Co.	12.25		
Buckland Printing Co.	17.50		
D. C. Heath & Co.	66.67		
M. J. Ivers & Co.	3.60		
Libby Printing Co.	5.50		
G. C. Prince & Son	13.15		
Practical Text Book Co.	14.40		
F. A. M. Tobin	28.25		
Union Printing Co.	7.00		
			203.02
For Fuel and Lighting:			
Frank Reilly	16.00		
Lowell Electric Light Co.	539.27		
Lowell Gas Light Co.	1,272.24		
			1,827.51
For Sundries:			
App. for Water Works	2.90		
Adams Hardware & Paint Co.	25.16		
W. T. S. Bartlett	.93		
Burnham & Davis Lumber Co.	12.92		
C. B. Coburn Co.	5.00		
Collins & Gallagher	10.00		
L. A. Derby	7.37		
E. P. Flanders & Co.	11.50		
Hibbard's Orchestra	27.00		
N. D. Lafleur	1.50		
Manchester & Concord Exp. Co.	.60		
Pratt & Forrest	10.80		
Jas. A. Shanley	22.00		
			137.68
Evening Drawing Schools:			
For Services of Sundry Persons as Teachers	3,498.50		
			3,498.50
For Paints, Oils, Plaster, Etc.:			
Adams Hardware & Paint Co.	.05		
C. B. Coburn Co.	9.50		
P. Dempsey & Co.	1.40		
			10.95

SCHOOLS—Continued

~~**PUBLIC BUILDINGS DEPT.—Continued**~~

For Lighting:		
Lowell Electric Light Co.	211.20	
		211.20
For Sundries:		
H. R. Barker Mfg. Co.	.60	
Lowell Machine Shop	22.50	
Chas. R. Preston	3.75	
F. A. M. Tobin	7.50	
Geo. F. Sturtevant	2.75	
		37.10
		309,258.84

SCHOOL HOUSES.

Appropriation	62,000.00	
Additional Appropriation	8,254.81	
Receipts	3,461.30	
		73,716.11
Expended		
For Labor, Sundry Persons	16,633.55	
Janitors	43,001.93	
		59,635.48
For Paints, Oils, Etc.:		
Adams Hardware & Paint Co.	49.42	
Sylvester Bean	350.69	
C. B. Coburn Co.	619.99	
A. L. Kittredge & Co.	19.26	
Smith & Lawrence	4.00	
Talbot Dyewood & Chem. Co.	1.54	
		1,044.90
For Mason Work, Materials and Roofing, Etc.:		
J. W. Bennett Co.	86.94	
J. Burns & Son	430.55	
Edw. Cawley	5.00	
P. Conlon	13.85	
Mathias Connor	124.75	

SCHOOL HOUSES—Continued

For Mason Work, Materials and Roofing, Etc.—Continued

B. F. Crosby & Co.	420.83
W. H. Fuller	72.50
T. F. Gilligan	45.75
Wilfred Lorain	61.20
P. H. Meehan & Co.	108.00
Monson Maine Slate Co.	28.00
Frank McNamara	9.47
J. O'Brien	64.40
P. O'Hearn	67.25
D. M. Prescott	143.30
S. E. Snow	163.50
Geo. H. Staples	119.10
D. T. Sullivan	164.40
Sutherland & Taylor	58.75
Taylor Roofing Co.	3.00
J. H. Walker	232.10
Walsh & Co.	153.65
Jas. Walsh	122.70

2,698.99

For Plumbing, Pipe, Fittings, Etc.:

H. R. Barker Mfg. Co.	135.53
E. P. Bryant	.60
E. J. Carroll & Co.	541.11
Carroll Bros.	160.35
Central Plumbing Co.	19.65
T. Costello & Co.	415.85
Daniel Cushing & Co.	64.78
J. D. Danahey	154.13
E. W. Devaney	13.53
H. S. Drury	601.66
E. F. Farrell	99.45
Farrell & Conaton	673.91
Chas. E. Gee	1.95
Gordon & Blood	16.41
Geo. P. Green	95.15
Jos. Harvey & Co.	632.27
C. F. Hoisington & Son	68.97
Arthur P. Knapp	9.57
Middlesex Machine Co.	609.51

SCHOOL HOUSES—Continued**For Plumbing, Pipe, Fittings, Etc.—Continued**

W. H. McElholm	10.68
W. A. Mack & Co.	1,012.44
Pevey Bros.	9.90
J. J. Saunders	47.50
Scannell Boiler Works	335.71
Scott & O'Day	160.39
P. F. Welch	263.10
Welch Bros.	97.98
H. H. Wilder & Co.	910.92

7,163.00

For Electrical Supplies:

L. A. Derby	15.93
H. F. Harding	44.39
N. E. Electrical Supply Corp.	13.80
M. J. Quinn	60.00
Tucke & Parker Co.	136.01

270.13

For Hardware, Etc.:

Adams Hardware & Paint Co.	83.11
W. T. S. Bartlett	8.80
Boutwell Bros.	5.35
Owen E. Brennan	.60
E. P. Flanders & Co.	28.80
H. J. Fitzpatrick	179.09
H. C. Girard	47.46
A. Parsons	1.65
Smith & Lawrence	35.59
Thompson Hardware Co.	69.40

459.85

For Lumber:

Burnham & Davis Lumber Co.	440.31
Chas. E. Howe & Co.	689.20
Amasa Pratt Co.	632.83
Pratt & Forrest	176.78
W. H. Wiggin	264.20

2,203.32

For Sundries:

App. for Water Works	20.63
Jacques Boisvert	10.80
Cyrus Barton	52.80

SCHOOL HOUSES—Continued

For Sundries—Continued

Jas. Boyle & Sons	.30	
Edw. Cawley	39.55	
Thos. H. Elliott	25.00	
Thos. F. Fay	12.00	
Josiah Gates & Son	7.24	
Gilbride's	6.00	
J. B. Goodwin	10.00	
F. B. Hill & Co.	5.00	
Geo. E. Hutchins	2.57	
Keefe Bros.	3.00	
Kelty Bros.	.15	
P. O'Hearn	2.25	
A. Parsons	9.25	
A. G. Pollard & Co.	27.15	
Stanley Transportation Co.	2.00	
A. G. Stiles	1.80	
H. F. Whiting	2.95	
		<u>240.44</u>
		<u>73,716.11</u>

MIDDLESEX VILLAGE SCHOOL BELL.

Balance Jan. 1, 1905	192.12	
		<u>192.12</u>
Expended		
For Labor, Sundry Persons	17.00	
To Boston & Maine Railroad	.56	
W. E. Decrow	174.00	
Thompson Hardware Co.	.56	
		<u>192.12</u>

ENNEL STREET SCHOOL.

Appropriation	60,000.00	
		<u>60,000.00</u>

ENNEL STREET SCHOOL—Continued

Expended	
For Labor, Sundry Persons	321.87
App. for Engineering	58.15
App. for Water Works	3.95
App. for School Houses	29.65
Cyrus Barton, "foundation"	4,500.00
Courier Citizen Co.	13.50
P. Conlon, "brick work"	10,000.00
Perley Gilbert	50.00
Harry P. Graves, "specifications"	1,856.68
Farrell & Conaton, "boilers and radiators"..	1,632.64
Lowell Daily Mail	10.50
Lowell Sun	10.50
Pratt & Forrest	2.76
W. H. Penn, "carpenter work"	4,677.00
Saturday Free Press	4.00
Stickney & Austin	100.00
Sunday Telegram	4.78
	23,275.98
	23,275.98
Balance to 1906	36,724.02
I	60,000.00

NEW COPING AT PAWTUCKET SCHOOL.

Appropriation	1,500.00	
		1,500.00
Expended		
For Labor, Sundry Persons	113.47	
Adams Hardware & Paint Co.	1.00	
T. Costello & Co.	565.90	
P. Ginty	154.44	
J. Jalbert	665.19	
		1,500.00

NEW BOILERS AT BUTLER SCHOOL.

Appropriation	1,200.00	
		1,200.00
Expended		
For H. R. Barker Mfg. Co.	1,185.00	
Courier Citizen Co.	6.67	
Farrell & Conaton	.05	
Lepine & Co.	3.50	
Lowell Sun	4.00	
Scannell Boiler Works	.75	
		1,199.97
		1,199.97
Transferred to General Treasury Fund		.03
		1,200.00

NEW BOILER AT MORRILL SCHOOL.

Appropriation	800.00	
		800.00
Expended		
For Labor, Sundry Persons	72.50	
App. for Public Bldgs, Carpenters	25.00	
P. Conlon	113.00	
Scannell Boiler Works	403.00	
Welch Bros.	186.50	
		800.00

NEW BOILER AT KIRK STREET SCHOOL.

Appropriation	500.00	
		500.00

NEW BOILER AT KIRK STREET SCHOOL—Continued

Expended

For Labor, Sundry Persons	21.50	
App. for Public Bldgs, Carpenters, Etc.	25.25	
App. for School Houses	12.01	
E. J. Carroll & Co.	297.00	
S. E. Snow	144.24	
	<u> </u>	500.00

LOWELL TEXTILE SCHOOL.

Appropriation	8,000.00	
	<u> </u>	8,000.00

Expended

To Trustees of Lowell Textile School	8,000.00	
	<u> </u>	8,000.00

PURCHASE OF GORMLEY ESTATE.

Appropriation	5,200.00	
	<u> </u>	5,200.00

Expended

To Gormley Estate	5,200.00	
	<u> </u>	5,200.00

BUILDING.

Appropriation	54,000.00	
	<u> </u>	54,000.00
Transferred to General Treasury Fund		3,992.00
Balance to 1906		50,008.00
		<u> </u>
		54,000.00

SEWER MAINTENANCE.

Salaries

Appropriation	2,939.00	
	<u> </u>	2,939.00

Expended

To S. D. Butterworth	939.00	
F. W. Lazelle	1,400.00	
C. H. Raymond	600.00	
	<u> </u>	2,939.00

Labor

Appropriation	12,000.00	
Receipts	504.00	
	<u> </u>	12,504.00

Expended

For Labor, Sundry Persons	12,346.62	
Transferred to General Treasury Fund	157.38	
	<u> </u>	12,504.00

Sundries

Appropriation	8,000.00	
Receipts	3,059.30	
	<u> </u>	11,059.30

Expended

For Hardware and Tools:		
Adams Hardware & Paint Co.	99.82	
W. T. S. Bartlett	51.75	
Boston Engineers' Supply Co.	189.00	
H. L. Bond Co.	41.60	
Boutwell Bros.	276.65	
Owen E. Brennan	115.11	
F. W. Cheney & Co.	62.55	
Edson Mfg. Co.	43.20	
E. P. Flanders & Co.	220.37	

SEWER MAINTENANCE—Continued

For Hardware and Tools—Continued

Chas. E. Gee	24.06
H. C. Girard	78.89
W. A. Mack & Co.	37.98
J. J. Saunders	18.12
Smith & Lawrence	114.50
H. B. Temby	254.60
Thompson Hardware Co.	8.00

1,636.20

For Paints, Oils, Etc.:

Adams Hardware & Paint Co.	37.01
J. C. Bennett	20.50
Boston Engineers' Supply Co.	38.80
Owen E. Brennan	1.10
C. B. Coburn Co.	256.37
P. Dempsey & Co.	5.20

358.98

For Rubber Boots and Repairing:

Boulger Shoe Co.	19.50
E. Lavery	30.45
J. J. Lonagan	24.50
O'Sullivan Bros. Co.	95.10
Sunlight Shoe Store	44.00

213.55

For Pipe, Fittings, Etc.:

H. R. Barker Mfg. Co.	25.96
Boston Engineers' Supply Co.	981.40
Edson Mfg. Co.	80.34
Farrell & Conaton	117.24
C. E. Gee	16.00
W. A. Mack & Co.	3.80
Middlesex Mch. Co.	.75
J. J. Saunders	4.00
J. W. Stewart	12.95
Union Brass Foundry	7.50
Union Iron Foundry	1,478.18

2,728.12

For Lighting:

Lowell Electric Light Co.	8.33
Lowell Gas Light Co. ...	2.00

10.33

SEWER MAINTENANCE—Continued

For Carriage Hire and Transportation:

American Express Co.	3.86
B. & M. Railroad	23.42
O. P. Davis	4.00
J. H. Sparks	20.00

51.28

For Brick, Cement, Fuel, Etc.:

John Brady	7.50
Edw. Cawley	488.69
Horne Coal Co.	6.50
Lowell Coal Co.	21.60
Staples Bros. Co.	.40
D. T. Sullivan	230.05

754.74

For Lumber:

Burnham & Davis Lumber Co.	1,142.87
Pratt & Forrest	284.53
Amasa Pratt Co.	261.49
W. H. Wiggin	73.94

1,762.83

For Carriages, Harnesses and Repairs:

A. L. Butman	20.80
Donovan Harness Co.	38.75
F. B. Hill & Co.	93.25
H. J. O'Dowd	48.00
J. H. Sparks	1.80

202.60

For Sundries:

App. for Water Works	56.40
App. for Engineering	1,031.54
F. M. Bill & Co.	58.00
M. & C. Bunce	1.01
C. B. Coburn Co.	34.90
L. A. Derby	9.46
Gookin Furniture Co.	.63
C. H. Hanson & Co.	17.50
C. M. Holmes	47.15
Geo. E. Hutchins	14.40
Edw. Kelly	50.00
Keefe Bros.	.58

SEWER MAINTENANCE—Continued

For Sundries—Continued

Lafin & Rand Powder Co.	986.00	
Philias Lanard	400.00	
R. J. Lang & Co.	6.50	
Middlesex Registry of Deeds	5.25	
Chas. J. Morse	22.27	
J. F. Morrison	50.00	
Chas. E. Munn	18.00	
T. J. McDonald	64.24	
W. B. F. McKissock	8.54	
F. E. McNabb	1.50	
Margaret McVey	15.00	
New England Electrical Supply Co.	.79	
H. E. Noyes & Son	13.79	
F. E. Putnam	29.25	
C. E. Robinson	99.27	
W. E. Rowlandson	40.00	
Chas. Runnels	13.98	
J. J. Saunders	2.45	
W. A. Sherman	6.00	
Simpson & Rowland	37.25	
J. H. Sparks	12.50	
Waverly Hotel	8.00	
		3,162.15
		10,880.78
Transferred to General Treasury Fund		178.52
		11,059.30

SEWER CONSTRUCTION.

Appropriation	50,000.00	
Additional Appropriation	50,000.00	
Receipts	10.00	
		100,010.00

SEWER CONSTRUCTION—Continued

Expended

For Labor, Sundry Persons	76,315.55	
To App. for Sewer Maintenance, Sundries.....	1,858.17	
· Auu. for Sewer Maintenance, Labor	1,667.06	
App. for Engineering	2,462.10	
App. for Water Works	195.72	
App. for Watering Streets, Sundries	180.00	
		82,678.60
For Brick, Cement, Fuel, Etc.:		
Edw. Cawley	10,507.87	
D. T. Sullivan	1,754.77	
		12,262.64
For Lumber:		
Burnham & Davis Lumber Co.	132.15	
Amasa Pratt Co.	46.14	
		178.29
For Hardware, Pipe, Fittings, Etc.:		
M. J. Drummond & Co.	1,671.87	
Thompson Hardware Co.	24.30	
Union Iron Foundry	241.92	
		1,938.09
For Sundries:		
B. & M. Railroad	881.50	
F. M. Bill & Co.	5.50	
Estate B. F. Butler	1,500.00	
Patrick Fitzgibbons	21.00	
A. G. Stiles	.75	
		2,408.75
		99,466.37
Transferred to General Treasury Fund		
		543.63
		100,010.00

STREETS.

Salaries

Appropriation	4,000.00	
		4,000.00

STREETS—Continued

Expended

To Fred W. Farnham, Supt.	16.13	
Chas. J. Morse, Supt.	1,983.87	
Geo. W. Hartwell, Asst. Supt.	1,400.00	
C. H. Raymond, Clerk	600.00	
	<u> </u>	4,000.00

Yard Labor

Appropriation	11,000	
Receipts	307.25	
	<u> </u>	11,307.25

Expended

For Labor, Sundry Persons	10,829.84	
	<u> </u>	10,829.84
Transferred to General Treasury Fund		477.41
		<u> </u>
		11,307.25

Labor

Appropriation	100,000.00	
Additional Appropriation	27,500.00	
Receipts	80.67	
	<u> </u>	127,580.67

Expended

For Labor, Sundry Persons	121,657.58	
Transferred to General Treasury Fund	2,000.00	
	<u> </u>	123,657.58
Transferred to General Treasury Fund		3,923.09
		<u> </u>
		127,580.67

Sundries

Appropriation	47,000.00	
Receipts	1,962.13	
	<u> </u>	48,962.13

STREETS—Continued**Expended**

For Fuel:

Edw. Cawley	1,287.60
D. T. Sullivan	17.92

1,305.52

For Hay, Grain, Etc.:

Ame & Co.	12.50
A. N. Blackie	249.94
Jos. Bowers	272.60
D. W. Bugbee & Co.	231.96
Coffey Bros.	446.76
H. E. Day	197.24
D. Donahoe	68.22
P. H. Donahoe & Co.	204.30
Geo. M. Foster	350.20
Fred A. Fox	205.40
Julia Hart	250.80
T. J. McDonald	647.94
Jos. Mullen	2,054.75
Daniel Murphy	211.40
H. E. Noyes & Son	3,652.72
Pawtuckville Cash Grocery	746.37
S. B. Puffer	96.50
G. B. Sabre	487.10
Paul Vigeant & Co.	1,179.81
O. D. Wilder	907.87
Mrs. C. J. Wilson	96.30
C. L. Wood	123.10

12,693.78

For Carriages, Harnesses and Repairs:

Geo. F. Allen	1.75
D. W. Bugbee & Co.	12.00
A. L. Butman	312.77
A. H. Cluer	297.00
Crown Harness Oil Co.	1.25
Donovan Harness Co.	211.51
C. H. Hanson & Co.	32.50
F. B. Hill & Co.	507.60
J. H. Sparks	21.10

1,397.48

STREETS—Continued

For Hardware, Tools, Etc.:

Adams Hardware & Paint Co.	96.40	
Ames Plow Co.	31.50	
W. T. S. Bartlett.	32.69	
J. C. Bennett.	77.36	
Boston Engineers' Supply Co.	48.00	
Boutwell Bros.	491.92	
H. L. Bond Co.	308.48	
E. W. Brown.	10.00	
Buffalo Steam Roller Co.	39.00	
Co-operative File Co.	4.50	
E. P. Flanders & Co.	142.95	
H. C. Girard.	116.70	
Good Roads Machinery Co.	1,390.91	
H. H. Harvey.	5.40	
Heselton Brush Mfg. Co.	28.00	
W. A. Mack & Co.	28.98	
N. E. Broom Co.	521.25	
J. J. Saunders.	20.27	
Henry B. Temby.	220.50	
H. Thompson.	100.75	
Thompson Hardware Co.	40.45	
Upton & Gilman.	2.58	
		3,758.59

For Lumber:

Burnham & Davis Lumber Co.	595.64	
Chas. E. Howe & Co.	35.90	
Amasa Pratt Co.	50.76	
Pratt & Forrest.	1,311.62	
W. H. Wiggin.	660.76	
		2,654.68

For Gravel, Stone, Cement, Etc.:

Bernard Callery.	24.50	
Edw. Cawley.	524.74	
J. A. Hayes.	39.00	
Jas. F. Holden.	19.20	
F. A. Mallory.	1,471.04	
Mass. Broken Stone Co.	1,819.40	
E. A. & A. T. Smith.	851.99	
D. T. Sullivan.	898.14	

STREETS—Continued

For Gravel, Stone, Cement, Etc.—Continued

Waltham Trap Rock Co.	948.62
Jas. Walsh	856.71
Jas. Walsh & Son	36.85

7,490.19

For Pipe, Fittings, Etc.:

H. R. Barker Mfg. Co.	12.49
Boutwell Bros.	97.28
C. B. Coburn Co.	4.00
Jas. D. Danahey	76.12
H. S. Drury	118.02
Farrell & Conaton	47.94
Chas. E. Gee	95.97
Locks and Canals	4.75
Lowell Machine Shop	.43
W. A. Mack & Co.	15.75
Middlesex Machine Co.	.60
Scannell Boiler Works	162.69
J. W. Stewart	14.96
Taylor Iron & Steel Co.	80.00
Union Iron Foundry	81.90
Welch Bros.	6.84

819.74

For Painters' Supplies:

Adams Hardware & Paint Co.	9.85
Sylvester Bean	25.38
J. C. Bennett	58.41
Boston Engineers' Supply Co.	161.31
C. B. Coburn Co.	235.19
Good Roads Machinery Co.	28.87
Keystone Lubricating Co.	10.00
Crown Harness Oil Co.	1.50

530.51

For Books, Stationery, Printing, Etc.:

Frances E. Andrews	9.50
Burroughs Adding Machine Co.	377.70
Courier Citizen Co.	16.38
Dumas & Co.	12.75
H. C. Kittredge	1.75
Thos. H. Lawler	15.25

STREETS—Continued**For Books, Stationery, Printing, Etc.—Continued**

Lowell Daily Mail	2.00
Lowell Sun	2.00
G. C. Prince & Son	56.25
Chas. E. Robinson	430.28
Sampson, Murdock Co.	6.00
Saturday Free Press	2.00
Sunday Telegram	2.03

933.89

For Transportation and Carriage Hire:

American Express Co.	16.63
B. & M. Railroad	1,384.65
Geo. W. Chapman	1.00
Manchester & Concord Express Co.	1.40
N. Y. & Boston Dispatch Express Co.	2.45
N. Y., N. H. & H. Railroad	13.68
J. H. Sparks	46.50

1,466.31

For Water, Lighting and Telephone:

App. for Water Works	225.91
Lowell Electric Light Corp.	400.41
Lowell Gas Light Co.	90.77
N. E. Tel. & Tel. Co.	32.22

749.31

For Veterinary:

J. A. Dow	140.50
W. S. Eaton	9.00
Chas. E. Munn	4.00
W. A. Sherman	18.00
J. H. Sparks	27.00

198.50

For Teaming:

App. for Parks, Sundries	26.44
App. for Watering Streets, Sundries	1,204.00
A. Arsenault	20.00
A. Bibeault	20.00
Jacques Boisvert	96.50
A. D. Boynton	20.00
Frank Brady	16.00
John Brady	63.00
B. G. Brown	76.75

STREETS—Continued

For Teaming—Continued

E. P. Bryant	54.00
Burnham & Davis Lumber Co.	74.25
Burns Callery	111.38
Edw. Cawley	22.50
Patrick Cogger	118.50
Conway Transfer Co.	136.75
Crystal Lake Ice Co.	45.00
E. Duren	71.00
F. Fahey	12.00
F. Fay	31.50
Geo. F. Fall	198.00
G. Gaudette	8.00
C. A. Gilman	67.50
C. H. Hanson & Co.	1,720.75
Horne Coal Co.	121.50
S. Legasse	15.00
Thos. Little	32.50
Jos. Loisselle	8.00
McGovern Bros.	26.00
Geo. K. McNabb	44.75
Jos. Mullen	77.50
O. F. Prentiss	71.87
R. E. Richardson	9.00
C. P. Salls	24.00
J. A. Simpson	13.50
S. J. Spence	14.00
E. A. Smith	8.00
Stanley Transportation Co.	81.00
D. T. Sullivan	72.00
H. W. Tarbell	96.50
Jas. Walsh	12.00
W. H. Wiggin	115.25

5,056.19

For Horses:

C. H. Hanson & Co.	2,628.90
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2,628.90

For Sundries:

App. for Engineering	3,536.00
App. for Parks, Sundries	109.69
App. for Public Bldgs, Electric Power	48.94

STREETS—Continued

For Sundries—Continued

Mrs. Chas. F. Adams	100.00
Geo. M. Beals	200.00
F. M. Bill & Co.	23.00
Boulger Shoe Co.	5.00
W. P. Brazier & Co.	1.25
Broadway Coll. Loan Co.	.50
John Conway	300.00
Cook, Taylor & Co.	7.13
Cross Awning Co.	1.50
L. A. Derby	2.45
O. K. Dexter	25.00
A. F. Frost	41.23
D. Gage	36.92
Gilbride's	7.05
A. M. Foote	50.00
Frye & Crawford	1.25
C. H. Hanson & Co.	41.55
A. G. Hill	5.60
James Hill, for Agnes Maguire	20.00
C. M. Holmes	68.20
John P. Hubbard	300.00
Geo. E. Hutchins	1.25
R. H. Hynes	3.20
H. J. Johnson	43.00
Delia A. Jones	25.00
Keefe Bros.	12.59
J. F. Kely	1.00
L. S. Kimball	15.00
R. J. Lang & Co.	1.80
Lowell Scale Works	35.00
M. E. Maguire	11.10
Merrimack Paving Co.	40.00
W. W. Morrison	15.00
G. R. Morse	3.00
Jas. Murkland & Son	22.96
Henry J. McDonald	42.00
T. J. McDonald	16.55
Wm. McLarney	.30
F. E. McNabb	21.44

STREETS—Continued

For Sundries—Continued

A. A. McNabb & Co.	6.60	
McNabb Bros.	4.47	
J. H. McNeil	14.00	
G. A. Nelson	1.50	
John Oliver	15.70	
O'Sullivan Bros. Co.	4.00	
G. N. Parker	15.00	
S. E. Peirce	100.00	
Wm. P. Proctor	25.00	
Pulsifer Chemical Co.	8.00	
F. E. Putnam	35.60	
Rice & Co.	7.00	
Richardson Hotel	9.90	
D. C. Sabourin	25.00	
Simpson & Rowland	35.00	
F. H. Smith	4.00	
A. G. Stiles	1.30	
E. Sullivan	75.00	
Town of Dracut	37.50	
Traders and Mechanics Ins. Co.	118.65	
Tucke & Parker Co.	1.01	
Upton & Gilman	8.00	
Chas. F. Urann	25.00	
Waverly Hotel	31.00	
C. H. Webster	30.00	
H. F. Whiting	1.68	
Worcester Mutual Ins. Co.	40.00	
		5,922.36
		47,605.95
Transferred to General Treasury Fund		1,356.18
		48,962.13

NEW SIDEWALKS.

Appropriation	7,500.00	
		7,500.00

NEW SIDEWALKS—Continued

Expended

For Labor, Sundry Persons	847.93	
F. A. Malorey	3,016.84	
Staples Bros. Co.	142.83	
D. T. Sullivan	333.00	
Execution of Court, Bridget Mackey	135.00	
Transferred to General Treasury Fund		4,475.60
		1,800.00
		6,275.60
Transferred to General Treasury Fund		
		1,224.40
		7,500.00

SIDEWALK REPAIRS.

Appropriation	4,000.00	
		4,000.00
	Expended	
To E. A. & A. T. Smith	3,046.43	
D. T. Sullivan	952.96	
		3,999.39
Transferred to General Treasury Fund		
		.61
		4,000.00

MACADAMIZING STACKPOLE STREET.

Appropriation	3,500.00	
		3,500.00

MACADAMIZING STACKPOLE STREET—Continued**Expended**

For Labor, Sundry Persons	3,457.18	
App. for Engineering	5.41	
Lowell Sun	12.00	
Jos. Mullen	18.00	
Saturday Free Press	5.00	
		3,497.59
Transferred to General Treasury Fund		2.41
		3,500.00

MACADAMIZING DURANT STREET.

Appropriation	5,500.00	
		5,500.00

Expended

For Labor, Sundry Persons	5,186.67	
App. for Engineering	56.68	
Courier Citizen Co.	12.60	
C. H. Hanson & Co.	235.00	
Lowell Daily Mail	9.00	
		5,499.95
Transferred to General Treasury Fund		.05
		5,500.00

MACADAMIZING WILLOW STREET.

Appropriation	1,500.00	
		1,500.00

Expended

For Labor, Sundry Persons	1,481.04	
App. for Engineering	16.26	
Sunday Telegram	2.70	
		1,500.00

**PAVING, PAINTING AND REPAIRING.
CENTRAL BRIDGE.**

Appropriation	11,000.00	
		11,000.00
Expended		
For Labor, Sundry Persons	1,403.13	
App. for Engineering	169.61	
W. T. S. Bartlett	90.20	
Sylvester Bean	588.07	
Boutwell Bros.	17.74	
Burnham & Davis Lumber Co.	3,898.53	
Edw. Cawley	2.60	
C. B. Coburn Co.	225.00	
E. P. Flanders & Co.	8.02	
H. C. Girard	39.20	
T. C. Lee & Co.	195.91	
Mahan & Meehan	61.80	
F. A. Malarey	65.00	
Rice & Co.	3.00	
J. J. Saunders	3.90	
E. A. Smith	891.92	
Thompson Hardware Co.	.78	
U. S. Wood Preserving Co.	3,335.17	
		10,999.58
Transferred to General Treasury Fund		.42
		11,000.00

WEST TENTH STREET EXTENSION.

Appropriation	900.00	
		900.00
Expended		
To Helen A. Coon	900.00	
		900.00

EXECUTION OF COURT.

EDW. QUINN VS. CITY.

Appropriation	3,111.29	
	<u> </u>	3,111.29
Expended		
To Estate of Edw. Quinn	3,111.29	
	<u> </u>	<u>3,111.29</u>

EXECUTION OF COURT.

M. V. CONNORS VS. CITY.

Appropriation	687.25	
	<u> </u>	687.25
Expended		
To M. V. Connors	687.25	
	<u> </u>	<u>687.25</u>

EXECUTION OF COURT.

GEO. W. MARSHALL VS. CITY.

Appropriation	200.00	
Receipt	550.00	
	<u> </u>	750.00
Expended		
To Geo. W. Marshall	750.00	
	<u> </u>	<u>750.00</u>

EXTENSION OF INA STREET.

Appropriation	850.00	
	<u> </u>	850.00
Balance to 1906		<u>850.00</u>

PURCHASE OF LANG LAND.

Appropriation	2,200	
	<u> </u>	2,200.00
Expended		
To Nancy M. Lang	2,200.00	
	<u> </u>	<u>2,200.00</u>

CLAIM OF FRANCIS M. TALBOT.

Appropriation	50.00	
	<u> </u>	50.00
Expended		
To Frances M. Talbot	50.00	
	<u> </u>	<u>50.00</u>

CLAIM OF VITAL ROBERT.

Appropriation	25.00	
	<u> </u>	25.00
Expended		
To Vital Robert	25.00	
	<u> </u>	<u>25.00</u>

CLAIMS FOR DAMAGES, INJURIES, ETC.

Appropriation	750.00	
	<u> </u>	750.00
Expended		
To Harry P. Doherty	500.00	
Belle McKay	250.00	
	<u> </u>	<u>750.00</u>

WATERING STREETS.

Labor:

Appropriation	5,000.00	
	<u> </u>	5,000.00

Expended

For Labor, Sundry Persons	4,999.11	
	<u> </u>	4,999.11
Transferred to General Treasury Fund		.89
		<u> </u>
		5,000.00

Sundries

Appropriation	10,500.00	
Receipts	1,384.00	
	<u> </u>	11,884.00

Expended

For Hardware, Pipe, Fittings, Etc.:

H. R. Barker Mfg. Co.	2.60	
Boutwell Bros.	28.63	
Jas. D. Danahey	123.80	
H. S. Drury	80.50	
Farrell & Conaton	.12	
Chas. E. Gee	3.98	
H. C. Girard	2.25	
N. E. Broom Co.	30.00	
Welch Bros.	5.00	
	<u> </u>	276.88

For Carriages, Harnesses and Repairing:

App. for Streets, Yard Labor	260.75	
Donovan Harness Co.	24.08	
	<u> </u>	284.83

For Sundries:

App. for Engineering	167.88	
App. for Sewer Maintenance Sundries	27.00	
App. for Streets, Sundries	1,951.32	
App. for Water Works	1,644.39	
Boston & Northern St. Railway	876.00	
Am. Car Sprinkler Co.	5,750.00	

WATERING STREETS—Continued

For Sundries—Continued

Edw. Cawley	3.61	
C. B. Coburn Co.	5.64	
Lowell Electric Light Co.	52.21	
F. E. McNabb	1.50	
Amasa Pratt Co.	29.87	
Chas. E. Robinson	20.50	
		10,529.92

11,091.63

Transferred to General Treasury Fund

792.37

11,884.00

SUPPLY DEPT.

Salaries and Labor

Appropriation	5,444.58	
		5,444.58

Expended

To Jas. E. Donnelly, Purchasing Agent	2,400.00	
Abram Fenton, Inspector	780.00	
Thos. J. Murphy, Inspector	741.00	
Eleanor M. Churchill, Clerk	780.00	
Samuel A. McPhetres, Clerk	728.00	
		5,429.00
Transferred to General Treasury Fund		15.58

5,444.58

Sundries

Appropriation	875.00	
		875.00

Expended

For Books, Stationery, Printing, Etc.:		
Courier Citizen Co.	90.00	

SUPPLY DEPT.—Continued

For Books, Stationery, Printing, Etc.—Conttnued

Thos. H. Lawler	32.50
Lawler Printing Co.	3.75
Osmond Long	45.00
G. C. Prince & Son	39.65
Remington Typewriter Co.	4.00
Sampson, Murdock Co.	3.00
F. A. M. Tobin	93.80

311.70

For Carriages, Harnesses and Repairing:

Robert Barris	10.50
Donovan Harness Co.	8.00
Thos. J. Goyette	13.00
H. J. O'Dowd	45.00
Salois & Leith	3.06

79.56

For Board of Horse:

A. B. Humphrey	218.42
T. J. McDermott	44.20

262.62

For Shoeing Horse:

J. J. Donnelly	73.90
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73.90

For Telephone, Transportation, Carriage Hire:

Am. Express Co.	.30
B. & M. Railroad	101.25
John F. Kelly & Co.	4.00
Thos. H. Kelley	7.63
N. E. Tel. & Tel. Co.	15.30
W. U. Tel. Co.	.61

129.09

For Sundries:

Adams Hardware & Paint Co.	2.50
R. T. Moore	2.50
M. J. Quinn	12.25

17.25

Transferred to General Treasury Fund

874.12

.88

875.00

WATER WORKS.

Balance Jan. 1, 1905	18,835.32	
Receipts	202,434.62	
		<u>221,269.94</u>

Expended

For Salaries Water Board:		
Robert J. Crowley, Chairmen	400.00	
August Fels	202.19	
M. J. Dowd	79.57	
Z. W. Sturtevant	173.28	
Frank L. Weaver	400.00	
I. E. Wotton	320.43	
		<u>1,575.47</u>
For Salaries and Labor:		
Robert J. Thomas, Superintendent	1,800.00	
John W. Crawford, Clerk	1,600.00	
Labor, Sundry Persons	68,895.98	
		<u>72,295.98</u>
App. for City Debt (Installment on Notes)	16,600	
		<u>16,600.00</u>
For Interest:		
Commonwealth of Massachusetts	1,200.00	
Sundry Persons (coupons on bonds)	45,260.00	
Estabrook & Co.	150.00	
Lowell Inst. for Savings	492.00	
Roundout Sav. Bank	1,500.00	
M. S. Tilton, Trustee	150.00	
		<u>48,752.00</u>
For Refunds on Water Rates (Sundry Persons) ..	1,036.02	
		<u>1,036.02</u>
For Fuel:		
John Brady	25.00	
Edw. Cawley	2,409.03	
Horne Coal Co.	15,637.81	
Lowell Coal Co.	363.64	
D. T. Sullivan	652.64	
		<u>19,088.12</u>
For Pipe, Meters, Hydrants, Fittings, Etc.:		
Ashton Valve Co.	17.80	
H. R. Barker Mfg. Co.	250.27	

WATER WORKS—Continued

For Pipe, Meters, Hydrants, Fittings, Etc.—Continued

Geo. F. Blake Mfg. Co.	29.47
Builders' Iron F'dy	410.86
W. W. Carey	116.27
Carroll Bros.	66.56
Chadwick Boston Lead Co.	8.00
City of Boston	26.94
Coffin Valve Co.	205.50
T. Costello & Co.	65.80
Crisscross Tube Cleaner Co.	2.50
Cutter, Wood & Stevens Co.	6.30
M. J. Drummond & Co.	1,970.08
H. S. Drury	776.30
Eastern Forge Co. of Mass.	7.95
Eddy Valve Co.	108.33
Farrell & Conaton	40.96
Geo. W. Fifield	87.50
W. D. Forbes Co.	41.80
Hersey Mfg. Co.	4,073.59
Chas. Kirby	3.20
Knowles Steam Pump Wks.	140.25
Lead Lined Iron Pipe Co.	2,904.42
Libby Mfg. Co.	4.40
Locke Regular Co.	4.81
Lowell Mch. Shop	4.93
Ludlow Valve Mfg. Co.	556.48
Middlesex Mch. Co.	71.42
H. Mueller Mfg. Co.	134.13
National Meter Co.	2,843.69
Neptune Meter Co.	30.46
A. F. Nichols	8.20
Pevey Bros.	29.85
Props. Locks and Canals	24.95
Rensselaer Mfg. Co.	347.49
Scannell Boiler Wks.	998.90
A. P. Smith Mfg. Co.	156.50
The Fairbanks Co.	140.50
Thomson Meter Co.	414.90
Union Iron Fdy.	21.11
Union Water Meter Co.	24.55

WATER WORKS—Continued**For Pipe, Meters, Hydrants, Fittings, Etc.—Continued**

Walworth Mfg. Co.	11.60
Water Works Equip. Co.	23.00
Welch Bros.	25.55
D. H. Wilson & Co.	4.55
H. R. Worthington	92.21

17,334.83

For Hardware, Etc.:

Adams Hdw. & Paint Co.	28.34
W. T. S. Bartlett	5.38
H. L. Bond Co.	39.92
Boutwell Bros.	51.94
E. P. Flanders & Co.	74.77
H. C. Girard	128.35
W. A. Mack & Co.	19.00
Rice & Co.	47.04
J. J. Saunders	8.30
Thompson Hdw. Co.	40.58

443.62

For Lumber:

Burnham & Davis Lbr. Co.	97.08
Chas. E. Howe & Co.	56.43
Amasa Pratt Co.	72.33
Pratt & Forrest	160.41
W. H. Wiggin	6.30

392.55

For Paints, Oils, Packings, Etc.:

Adams Hdw. & Paint Co.	103.88
Sylvester Bean	108.52
Boston Engineers' Supply Co.	443.24
A. W. Chesterton & Co.	2.63
C. B. Coburn Co.	377.10
Walter Coburn & Co.	21.00
P. Dempsey & Co.	.65
W. & B. Douglas	1.35
Eagle Electric Co.	114.98
Eagle Oil & Supply Co.	194.57
Garlock Pck'g Co.	66.93
Greenwood & Daggett Co.	227.70
Greenwood Mfg. & Supply Co.	21.63
Hart Packing Co.	67.43

WATER WORKS—Continued**For Paints, Oils, Packings, Etc.—Continued**

Heaney Mfg. Co.	6.00
G. W. Knowlton Rubber Co.	26.71
Lowell Polish Co.	3.00
Philadelphia Grease Mfg. Co.	4.25
Wm. C. Robinson & Son Co.	90.68
Valvoline Oil Co.	284.56
H. E. Webster	25.00

2,191.81

For Stationery, Printing, Advertising, Etc.:

Baker Printing Co.	3.00
Frank P. Bridges & Co.	3.00
Butterfield Printing Co.	210.85
Courier Citizen Co.	255.83
Daily Mail Pub. Co.	12.00
Dumas & Co.	217.00
Engineering News	5.00
Fire and Water Engineering	3.00
H. C. Kittredge	.20
Thos. H. Lawler	22.40
Lepine & Co.	9.80
Library Bureau	78.75
Libby Printing Co.	8.30
Osmond Long	5.00
Lowell Daily Mail	9.75
Lowell Labor Journal	1.50
Lowell Sun	22.75
G. C. Prince & Son	68.53
Sampson, Murdock Co.	9.00
Saturday Free Press	18.50
Sunday Telegram	13.26
F. A. M. Tobin	37.65
N. M. Wood	22.08
M. G. Wight & Co.	8.00

1,045.15

For Concrete, Mason Work, and Material:

Edw. Cawley	35.65
Patrick Cogger	1.25
P. Conlon	145.71
Lowell Mch. Shop	3.09
E. A. & A. T. Smith	138.60

WATER WORKS—Continued**For Concrete, Mason Work and Material—Continued**

Staples Bros. Co.	759.00
D. T. Sullivan	60.10

1,143.40

For Hay, Grain, Etc.:

J. B. Cover & Co.	27.63
Ame & Co.	25.00
G. M. Foster	176.31
T. J. McDonald	54.90
H. E. Noyes & Son	157.96
P. Vigeant & Co.	138.66

580.46

For Carriages, Harnesses and Repairing:

E. P. Bryant	46.75
Donovan Harness Co.	107.31
F. B. Hill & Co.	8.60
H. J. O'Dowd	2.00
Sawyer Carriage Co.	10.39
Sparks Harness Co.	14.50

189.55

For Shoeing:

S. A. Shattuck	152.30
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152.30

For Lighting and Telephone:

Lowell Gas Lt. Co.	10.98
N. E. Tel. & Tel. Co.	104.50
W. U. Tel'g. Co.	.25

115.73

For Insurance:

Fred C. Church	318.50
Thos. C. Lee & Co.	211.50
Henry Miller & Son	490.50
N. G. Norcross	436.50

1,457.00

For Expenses of Water Board:

J. W. Crawford	15.70
Z. W. Sturtevant	37.25
W. F. Sullivan	28.74
Robert J. Thomas	89.20
I. E. Wotton	42.00

212.89

WATER WORKS—Continued**For Transportation, Carriage Hire and Teaming:**

American Express Co.	30.00
B. & M. R'd.	177.66
Patrick Cogger	30.50
E. Duren	83.25
Willis Hobbs	19.00
Manchester & Concord Exp. Co.	2.55
Meserve's Lowell & Boston Exp.	.85
N. Y. & Boston Desp. Exp. Co.	14.00
N. Y., N. H. & H. R'd	59.18
M. O'Mahoney	8.03
J. H. Sparks	21.00

446.02

For Sundries:

Appropriation for Engineering	1,404.91
Bay State Inc. Lamp Co.	12.88
Chas. Bellville	4.20
F. M. Bill & Co.	4.50
W. W. Carey	1.80
J. J. Cassidy	15.00
Geo. W. Clarke	.90
C. B. Coburn Co.	60.81
J. B. Cover & Co.	.65
Cross Awning Co.	17.00
L. A. Derby	3.80
Derby Desk Co.	109.48
Frye & Crawford	.63
D. Gage	12.07
Gilbride's	6.60
Gookin Bros.	2.00
Geo. W. Gordon	.70
W. E. Grant	11.72
Greenwood Bros.	10.50
Michael Harrington	2.00
E. Howard Clock Co.	10.00
G. E. Hutchins	.60
J. H. Hickey	1.00
C. F. Kappler	7.00
A. L. Kittredge & Co.	4.00
Laffin & Rand Powder Co.	16.50
R. J. Lang & Co.	1.40

WATER WORKS—Continued

For Sundries—Continued

Lowell Elect. Lt. Co.	300.00	
Mellor & Saunders	25.00	
Miller & Co.	11.75	
Jas. Murkland & Son	11.64	
John J. McCann	4.35	
J. J. McManmon	169.05	
Geo. A. Nelson	10.25	
N. E. Motor Co.	124.00	
Frank A. Orcutt	15.00	
O'Brien Bros.	7.50	
O'Sullivan Bros. Co.	28.50	
Props. Locks and Canals	286.90	
Power Specialty Co.	1,080.00	
M. J. Quinn	25.08	
Harry Raynes	2.50	
G. G. Read	11.00	
Robertson & Co.	1.50	
Peter Rynn	4.30	
Simpson & Rowland	11.50	
J. H. Sparks	2.00	
Talbot Dyewood & Chem. Co.	6.84	
Tucke & Parker Co.	118.59	
E. G. Twohey	235.61	
Town of Chelmsford	55.13	
H. F. Whiting	23.92	
Whittett & Co.	70.50	
Mitchell, Wing & Co.	26.16	
R. D. Wood & Co.	34.00	
		4,425.22
Balance to 1906.....		189,478.12
		31,791.82
		221,269.94

STATE AID.

Salaries and Sundries

Appropriation	2,020.00	
Additional Appropriation	25.00	
		<u>2,045.00</u>

Expended

To Herbert M. Potter, Supt.	1,200.00	
Mary C. Brennan, Asst. Supt.	720.00	
		<u>1,920.00</u>

For Sundries:

American Express Co.	.15	
Carter's Ink Co.	.38	
N. E. Tel. & Tel. Co.	3.77	
H. M. Potter	95.80	
G. C. Prince & Son	14.90	
Sampson, Murdock Co.	3.00	
Union Printing Co.	7.00	
		<u>125.00</u>

2,045.00

STATE AID.

Appropriation	15,000.00	
Additional Appropriation	602.50	
Receipts	26.00	
		<u>15,628.50</u>

Expended

For Aid to Sundry Persons	15,628.50	
		<u>15,628.50</u>

MILITARY AID.

Appropriation	4,000.00	
Receipts	8.00	
		<u>4,008.00</u>

MILITARY AID—Continued

Expended

For Aid to Sundry Persons	3,170.00	
		<u>3,170.00</u>
		3,170.00
Transferred to General Treasury Fund		<u>838.00</u>
		4,008.00

SOLDIERS' RELIEF.

Appropriation	9,000.00	
Additional Appropriation	984.64	
Receipts	4.00	
		<u>9,988.64</u>
For Aid to Sundry Persons (Cash)	6,924.00	
		<u>6,924.00</u>

Expended

For Provisions, Fuel, Etc.:	
App. for Paupers O. D. R. Gen'l Sundries ..	102.00
John Battersby	31.00
J. H. Beaulieu	6.00
Broadway Cash Market	25.00
J. S. Brooks	72.00
W. H. Brown	27.00
J. H. Burke	65.00
Edw. Cawley	57.75
City of Taunton	11.25
C. F. Devno	98.00
Family Supply Co.	267.00
Geo. Fairburn	4.00
J. H. Flood	16.00
Furlong Bros.	10.00
W. F. Gallagher	72.00
W. T. Griffin	112.28

SOLDIERS' RELIEF—Continued**For Provisions, Fuel, Etc.—Continued**

H. Hadley	22.00
W. J. Hardy & Co.	51.00
Horne Coal Co.	25.35
Keefe Bros.	104.00
A. J. Keith	53.00
J. M. Kingsbury	108.00
R. J. Lang & Co.	12.30
Lowell Coal Co.	139.44
Lowell Gas Light Co.	27.90
Geo. Lynch	162.64
J. J. McCausland & Co.	104.00
G. R. Myers	17.00
H. M. Potter	30.85
J. B. Richardson & Sons	70.00
J. F. Saunders	11.00
F. R. Strout	76.00
Union Market	80.00
S. W. Wiggin	46.63
C. H. Wing	4.00

2,121.39
For Interments:

J. W. Brooks	70.00
A. H. Bixby & Co.	35.00
J. B. Currier	35.00
Thos. F. Hill, Jr.	70.00
C. H. Molloy	70.00
Jas. H. McDermott	70.00
J. J. O'Connell & Co.	35.00
J. F. O'Donnell & Sons	105.00
Peter H. Savage	70.00
J. H. Weinbeck	70.00
C. M. Young & Co.	70.00

700.00
For Physicians:

Solon Bartlett	98.25
J. E. Leary	132.00
Lowell Hospital Association	13.00

243.25

9,988.64

TEMPORARY LOANS.

Balance Jan. 1, 1905	800,000.00	
Borrowed in 1905	1,300,000.00	
		<u>2,100,000.00</u>

Expended

To Bond & Goodwin	300,000.00	
First National Bank of Boston	500,000.00	
Lowell Inst. for Savings	500,000.00	
		<u>1,300,000.00</u>
Balance to 1906		800,000.00
		<u>2,100,000.00</u>

CITY DEBT.

Appropriation	267,621.90	
Received from App. for Water Works	16,600.00	
		<u>284,221.90</u>

Expended

To Central Savings Bank	13,620.00	
City Inst. for Savings	7,100.00	
Commonwealth of Massachusetts	28,250.00	
Commissioners of Sinking Fund	2,500.00	
East River Sav. Institution	4,500.00	
Esterbrook & Co.	7,500.00	
Hospital Aid Society	500.00	
Leominster Sav. Bank	3,000.00	
Lowell Five Cent Sav. Bank	520.00	
Lowell Inst. for Savings	177,834.90	
N. E. Mutual Life Ins. Co.	1,900.00	
Seamen's Bank for Savings	17,500.00	
U. S. Savings Bank	5,000.00	
Wareham Sav. Bank	4,000.00	
Washington Inst. for Savings	5,997.00	
Woburn Five Cent Sav. Bank	4,500.00	
		<u>284,221.90</u>
		<u>284,221.90</u>

INTEREST.

Appropriation	134,500.00	
		<u>134,500.00</u>

Expended

To Berkshire Cotton Mfg. Co.	500.00
Bond & Goodwin	10,000.00
Bowery Sav. Bank	6,000.00
Cape Cod Five Cent Sav. Bank	500.00
Central Sav. Bank	2,816.92
Commonwealth of Massachusetts	1,107.50
City Inst. for Savings	1,136.00
Commissioners of Sinking Funds	350.00
East River Sav. Bank	90.00
First National Bank	8,729.17
E. W. & E. F. Fox	100.00
Hospital Aid Society	10.00
Leominster Sav. Bank	280.00
Emma W. Lewis	80.00
Lowell Five Cent Sav. Bank	83.20
Lowell Inst. for Savings	58,080.75
Ministry at Large	600.00
Jacob Nathan	20.00
John Nathan	20.00
N. E. Mutual Life Ins. Co.	152.00
N. Y. Savings Bank	2,000.00
Peoples' Sav. Bank	600.00
Randolph Sav. Bank	500.00
Chas. Russell	100.00
Schenectady Sav. Bank	1,100.00
Seamen's Bank for Savings	1,150.00
Treas. of High Street Church	60.00
Trustees of Estate Thos. Nesmith	1,500.00
Trustees of Public Burial Grounds	3,782.39
Taunton Sav. Bank	500.00
U. S. Savings Bank	200.00
Wareham Sav. Bank	160.00
Washington Inst. for Savings	1,416.42
Mary J. Watts	80.00
L. Watts Estate	40.00

INTEREST—Continued

Expended—Continued

Woburn Five Cent Sav. Bank	250.00	
Sundry Persons on Bonds	26,450.00	
		<u>130,544.35</u>
		130,544.35
Transfer to General Treasury Fund		<u>3,955.65</u>
		<u>134,500.00</u>

SINKING FUNDS.

Appropriation	32,300.00	
		<u>32,300.00</u>

Expended

Paid Commissioners of Sinking Funds:		
Water Loan Sinking Fund	16,000.00	
High Service Sinking Fund	1,800.00	
City Hall and Memorial Bldg Fund	7,500.00	
New School Houses	4,000.00	
High School	3,000.00	
		<u>32,300.00</u>

CARNEY MEDAL FUND.

Received of James G. Carney, in 1858 and 1859, the amount of \$200, which is to remain a perpetual debt of the city forever; the interest to be applied in payment for the "Carney Medals" to the departments of the High School (annually).

Balance Jan. 1, 1905	200.00	
		<u>200.00</u>
Balance undrawn Dec. 31, 1905	200.00	
		<u>200.00</u>

EDSON CEMETERY ANNEX.

Balance Jan. 1, 1905	306.37	
	<u> </u>	306.37
Expended		
To N. E. Tel. & Tel. Co.	.74	
John G. Jackson	46.02	
Sundry Persons for Labor	258.38	
	<u> </u>	305.14
		<u> </u>
		305.14
Transferred to General Treasury Fund		1.23
		<u> </u>
		306.37
		<u> </u>

GREENHALGE PORTRAIT.

Balance Jan. 1, 1905	300.00	
	<u> </u>	300.00
Balance undrawn Dec. 31, 1905	300.00	
	<u> </u>	300.00
		<u> </u>

TAX CASES.

Balance Jan. 1, 1905	326.08	
	<u> </u>	326.08
Transferred to General Treasury Fund	326.08	
	<u> </u>	326.08
		<u> </u>

ATHLETIC APPARATUS ON THE NORTH AND SOUTH COMMONS.

Appropriation	500.00	
	<u> </u>	500.00
		<u> </u>

ATHLETIC APPARATUS ON THE NORTH AND SOUTH

COMMONS—Continued

Expended		
To Narragansett Machine Co.	198.75	
N. Y., N. H. & H. Railroad	3.16	
		201.91
		201.91
Balance to 1906		298.09
		500.00

MEMORIAL DAY SPANISH WAR VETERANS.

Appropriation	200.00	
		200.00
Expended		
To Buckland Printing Co ...	13.65	
O. P. Davis	10.00	
Oscar P. Ellis	13.50	
Jas. N. Gregg	16.00	
Blanche Jelly	38.45	
Lowell Military Band	75.00	
Mellor & Saunders	9.40	
Jas. Walsh	24.00	
		200.00

MEMORIAL DAY G. A. R.

Appropriation	1,000.00	
		1,000.00

MEMORIAL DAY G. A. R.—Continued

For Music:

J. A. Baker	30.00
J. H. Jeannotte	24.00
Lowell Cadet Band	75.00
Lowell Military Band	75.00
L'Union Musicale Band	75.00
American Band	75.00

354.00

For Printing, Etc.:

Courier Citizen	3.00
H. F. Glidden	1.75
Chas. E. Robinson	12.00
Union Printing Co.	7.25

24.00

For Refreshments:

Cornack & Co.	1.78
J. A. Evans	9.35
Page Catering Co.	150.00
D. L. Page Co.	2.10
Post 42, G. A. R.	17.00
Post 120, G. A. R.	35.50
Post 185, G. A. R.	17.00

232.73

For Carriage Hire and Teaming:

T. Beachemin	2.50
Boston & Northern Street Railway Co.	14.00
A. B. Humphrey	4.00
D. P. Knowlton	2.50
J. H. Sparks	45.00
John A. Weinbeck	15.00

83.00

For Sundries:

W. E. Hatch	4.53
C. H. Kimball & Co.	36.50
Chas. L. Marshall	99.19
Maston & Well Fire Works Co.	24.00
F. B. Peabody	29.00
Pevey Bros.	52.50
J. A. Pinard	7.50
Prop. Lowell Cemetery	3.00

MEMORIAL DAY G. A. R —Continued

For Sundries—Continued

J. B. Sabre	4.05	
F. N. Weir	5.00	
Chas. F. Young & Co.	41.00	
		306.27
		1,000.00

FOURTH OF JULY OBSERVANCE.

Appropriation	3,000.00	
Additional Appropriation	76.00	
		3,076.00

For Fireworks:

W. A. Luce	800.00	
		800.00

For Music:

Fifth Regiment Fife and Drum Corps	48.00	
Gen. Butler Association Band	66.00	
Lowell Cadet Band	150.00	
Lowell Military Band	150.00	
The Union Musicale Band	150.00	
National Band	100.00	
St. Patrick's Fife & Drum Corps	50.00	
The American Band	104.00	
		818.00

For Prizes:

H. R. Barker Mfg. Co.	10.00	
Bell Fontaine & Co.	15.00	
Campeau Council	75.00	
Chapel Hill Associates	25.00	
Company G	60.00	
Daughters of Liberty	200.00	
Dennis Denault	15.00	
M. L. Donnelly	50.00	
O. M. I. Cadets	50.00	
Pratt & Forrest	25.00	

FOURTH OF JULY OBSERVANCE—Continued

For Prizes—Continued

Portuguese Benefit Society	50.00
Peter W. Reilly	30.00
Y. M. C. I.	100.00

705.00

For Printing, Etc.:

Buckland Printing Co.	7.00
Courier Citizen Co.	2.50
Libby Printing Co.	11.80
F. A. M. Tobin	18.98

40.28

For Firing Salute and Ringing Bells:

Lowell Mechanics Phalanx	150.00
Arthur Willman	10.00

160.00

For Carriage Hire:

Keefe & Horan	5.00
J. F. O'Donnell & Sons	5.00
M. T. Rafferty	5.00
J. H. Sparks	5.00

20.00

For Sundries:

Labor, Sundry Persons	23.35
Sylvester Bean	20.00
Company M	60.00
Donovan Harness Co.	5.00
Frank M. Dowling	19.70
Geo. L. Hubbard	54.00
C. H. Kimball & Co.	142.55
Lowell Mechanics Phalanx	60.00
J. E. Mountford	6.50
Post 120, G. A. R.	5.00
Page's Spa	65.05
L. J. & J. A. Rogers	42.80
Waverly Hotel	18.20
Welch Bros.	10.00

3,075.43

Transferred to General Treasury Fund

.57

3,076.00

PRINTING MUNICIPAL REGISTERS.

Appropriation	225.00	
	<u> </u>	225.00
Expended		
To Dumas & Co.	31.40	
Libby Printing Co.	185.00	
	<u> </u>	216.40
Transferred to General Treasury Fund		8.60
		<u> </u>
		225.00
		<u> </u>

MUNICIPAL BAND CONCERTS.

Appropriation	700.00	
	<u> </u>	700.00
Expended		
To American Band	125.00	
Lowell Cadet Band	125.00	
Lowell Military Band	125.00	
The Union Musicale Band	125.00	
National Band	125.00	
Welch Bros.	55.00	
	<u> </u>	680.00
Transferred to General Fund		20.00
		<u> </u>
		700.00
		<u> </u>

COUNTY TAX.

Appropriation	76,264.33	
	<u> </u>	76,264.33
Expended		
To County of Middlesex	76,264.33	
	<u> </u>	76,264.33
		<u> </u>

NATIONAL BANK TAX.

Appropriation	12,522.12	
Additional Appropriation	389.81	
	<u> </u>	12,911.93
Expended		
To Commonwealth of Massachusetts	12,911.93	
	<u> </u>	<u>12,911.93</u>

STATE TAX.

Appropriation	97,604.73	
	<u> </u>	97,604.73
Expended		
To Commonwealth of Massachusetts:		
State Tax	92,880.00	
Armory Loan Sinking Fund	1,527.09	
Interest	3,197.64	
	<u> </u>	<u>97,604.73</u>

STATE HIGHWAY TAX.

Appropriation	115.15	
	<u> </u>	115.15
Expended		
To Commonwealth of Massachusetts	115.15	
	<u> </u>	<u>115.15</u>

TAXES—ABATEMENTS

Balance undrawn Jan. 1, 1905	711.72	
Overlayings	24,541.18	
Supplementary Tax	992.11	26,245.01
	<u> </u>	<u> </u>
Expended		
Paid sundry persons abatements after payment ..	419.16	
Abated by Assessors before payment	7,685.30	8,104.46
Balance undrawn Dec. 31, 1905		18,140.55
		<u> </u>
		<u>26,245.01</u>

TAXES.

ACTS OF 1885, CHAPTER 312.

"An Act to Limit Municipal Debt of and the Rate of Taxation in Cities."

"Be it enacted, etc., as follows:

"Section 1. The taxes assessed on property in any city, except the City of Boston, exclusive of State Tax, County Tax and sums required by law to be raised on account of the City Debt, shall not exceed in any year twelve dollars on every one thousand dollars of the average of the assessors' valuations of the taxable property therein for the preceding three years, the valuation being first reduced by the amount of all abatements allowed thereon, previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void.

"Sect. 2. The limit of indebtedness of cities shall hereafter be two and one-half per cent. on the average valuation prescribed in Section one of this act."

The amount of taxes assessed on the Polls and on the Real and Personal Estates within the City of Lowell, for the year 1905, was as follows:

Valuation of and Tax on Real and Personal Property

	VALUATION	RATE	TAX
Real Estate	\$57,211,795.00	\$20.20 per \$1,000	\$1,155,678.26
Personal Estate	14,433,923.00	20.20 per 1,000	291,565.24
Total Valuation ..	\$71,645,718.00	Tax on Property.....	
Number of Polls, 26,087, at \$2 each			52,174.00
Tax assessed on shares of stock in the National Banks of Lowell, held by non-residents, and which are not included in the City valuation, 619,907 at \$20.20 per \$1,000.....			12,522.12
Grand total tax for year 1905			
			1,511,939.62

Appropriated and assessed in year 1905:

City Appropriations	1,291,900.00
State Tax	92,880.00
County Tax	76,264.23
Armory Tax	4,724.73
State Highway Tax	115.15
Lowell Textile School	8,000.00

TAXES—Continued

Appropriated and Assessed in Year 1905—Continued

Overlayings	24,541.18	
Supplementary Tax	992.11	
Non-resident Bank Shares	12,522.12	
		1,511,939.62



TRUST FUNDS

[CHAP. 322.]

AN ACT TO PROVIDE FOR THE AUDITING OF CERTAIN TRUST FUNDS AND ACCOUNTS.

Be it enacted, etc., as follows:

SECTION 1. It shall be the duty of city and town auditors at least once every year, and so much oftener as they may deem it necessary, to audit the accounts of the trustees of any property the principal or income of which, in whole or in part, was bequeathed or given in trust for the benefit of the city or town or any part thereof, or for the benefit of the inhabitants of the city or town or of any part thereof, and to examine and estimate the funds, securities and evidences of property held by such trustees. City and town auditors shall include in their annual reports a report of such auditing and investigation; and if they discover any fraud or irregularity they shall immediately report the same to the mayor and treasurer of the city or to the selectmen and treasurer of the town.

SECTION 2. It shall be the duty of the trustees designated in section one hereof to give city and town auditors free access to their accounts, funds, securities and evidences of property; and any such trustee who refuses to exhibit his trust accounts, funds, securities and evidences as aforesaid shall be subject to a fine of not less than fifty nor more than two hundred dollars.

SECTION 3. This act shall be construed as applying only to property held in trust for public uses. [Approved May 9, 1904.]

Water Loan Sinking Fund

Value of fund Jan. 1, 1906	374,734.67
Securities belonging to this fund	371,500.00
Cash on deposit at Appleton National Bank	3,234.67
	<u>374,734.67</u>

High Service Water Loan Sinking Fund

Value of fund Jan. 1, 1906	63,150.46
Securities belonging to this fund	62,000.00
Cash on deposit at Appleton National Bank	1,150.46
	<u>63,150.46</u>

TRUST FUNDS—Continued

City Hall and Memorial Building Fund

Value of fund Jan. 1, 1906	171,863.33
Securities belonging to this fund	170,000.00
Cash on deposit at Appleton National Bank ...	1,863.33
	<u>171,863.33</u>

High School Sinking Fund

Value of fund Jan. 1, 1906	55,399.74
Securities belonging to this fund	52,500.00
Cash on deposit at Appleton National Bank	2,899.74
	<u>55,399.74</u>

New School Houses Sinking Fund

Value of fund Jan. 1, 1906	38,645.26
Securities belonging to this fund	38,000.00
Cash on deposit at Appleton National Bank	645.26
	<u>38,645.26</u>

Hapgood Wright Centennial Trust Fund

Value of fund Jan. 1, 1906	3,397.14
Cash on deposit Lowell Institutions for Savings.	687.06
Cash on deposit City Institutions for Savings ..	2,710.08
	<u>3,397.14</u>

Public Burial Ground Fund

Value of fund Jan. 1, 1906	45,775.00
Savings Bank Accounts Valued	<u>45,775.00</u>

TRUST FUNDS—Continued

John Davis Fund

Present value of fund	114,596.49
Savings Bank Accounts	13,790.38
Bonds	55,000.00
Stocks	37,718.62
Notes	2,950.00
Real Estate	2,400.00
Silverware and Jewelry	90.15
Cash, A. G. Stiles, City Treasurer	2,599.82
Cash, F. A. Chase, Agent	47.52
	<u>114,596.49</u>

I hereby certify that I have examined the preceding accounts and securities belonging to the several Trust Funds held for public uses and find them correct.

Attest: CHAS. D. PAIGE,
City Auditor.

DUE FROM THE CITY ON ORDINARY CITY DEBT

DECEMBER, 1905

Date of Securities	To Whom Payable	Amount	Rate	Interest — When Due	Interest Due in 1906	Notes and Instalments When Due	Payments Due 1906
1871, Mar. 6.	Bequest of Thomas Nesmith	\$ 25,000.00	6	March 6 and Sept. 6	\$1,500.00	Perpetual	
1871, Apr. 10	Bequest of Thomas Nesmith	1,000.00	6	April 10 and Oct. 10	60.00	Perpetual	
1878, May 10	Bequest of Jonathan Taylor	10,000.00	6	May 10 and Nov. 10	600.00	Perpetual	
1890, Oct. 1.	Sundry persons (bonds)	459,000.00	4	April 1 and Oct. 1	18,000.00	1920, Oct. 1	
1891, April 1	Sundry persons (bonds)	150,000.00	4	April 1 and Oct. 1	6,000.00	1921, Apr. 1	
1896, May 5.	Lowell Institution for Savings	7,500.00	3½	May 5	135.96	1906, May 5	7,500.00
1896, May 6.	E. H. Rollins & Son	2,500.00	4	May 6	50.00	1906, May 6	2,500.00
1896, May 6.	E. H. Rollins & Son	2,500.00	4	May 6	50.00	1906, May 6	2,500.00
1896, July 1.	Sundry persons (bonds)	200,000.00	4	4,000.00. 4,000.00 Jan 1 and July 1	8,000.00	1926, July 1	
1896, Sept. 19	New England Life Ins. Co., Boston ...	1,900.00	4	38.00 March 19 and Sept. 19	76.00	1906, Sept. 19	1,900.00
1896, Nov. 18	E. H. Rollins & Son	5,000.00	4	100.00 May 18 and Nov. 18	200.00	1906, Nov. 18	5,000.00
1897, May 11	The Seaman's Bank for Savings, N. Y.	15,000.00	4	300.00 May 11 and Nov. 11	450.00	1906, May 11	7,500.00
1897, Aug. 10	Lowell Institution for Savings	9,000.00	4	180.00 Feb. 10 and Aug. 10	360.00	1906, Aug. 10	4,500.00
1897, Nov. 8.	Lowell Institution for Savings	3,000.00	4	60.00 May 8 and Nov. 8	120.00	1906, Nov. 8	1,500.00
1897, Nov. 24	Lowell Institution for Savings	2,020.00	4	40.40 May 24 and Nov. 24	80.80	1906, Nov. 24	1,010.00

1898, May 18	Lowell Institution for Savings	4	30,000.00	600.00 May 18 and Nov. 18	600.00 May 18	1,200.00	1906, May 18	10,000.00
1898, July 9.	City Institution for Savings	4	10,500.00	210.00 Jan. 9 and July 9	210.00 July 9	420.00	1906, July 9	3,500.00
1898, Aug. 6..	Commissioners of Sinking Funds	3½	7,500.00	131.25 Feb. 6 and Aug. 6	131.25 Aug. 6	262.50	1906, Aug. 6	2,500.00
1898, Aug. 15	Lowell Five Cent Savings Bank	4	1,560.00	31.20 Feb. 15 and Aug. 15	31.20 Aug. 15	62.40	1906, Aug. 15	520.00
1898, Sept. 22	Lowell Five Cent Savings Bank	4	9,000.00	180.00 March 22 and Sept. 22	180.00 Sept. 22	360.00	1906, Sept. 22	3,000.00
1898, Oct. 4..	City Institution for Savings	4	10,800.00	216.00 April 4 and Oct. 4	216.00 Oct. 4	432.00	1906, Oct. 4	3,600.00
1898, Nov. 9..	Lowell Institution for Savings	4	30,000.00	600.00 May 9 and Nov. 9	600.00 Nov. 9	1,200.00	1906, Nov. 9	10,000.00
1898, Dec. 8	Lowell Institution for Savings	4	14,400.00	288.00 June 8 and Dec. 8	288.00 Dec. 8	576.00	1906, Dec. 8	4,800.00
1898, Dec. 8..	Lowell Institution for Savings..	4	9,030.00	180.60 June 8 and Dec. 8	180.60 Dec. 8	361.20	1906, Dec. 8	3,010.00
1899, Mar. 7..	Lowell Institution for Savings	3½	14,000.00	218.75 March 7 and Sept. 7	218.75 Sept. 7	382.81	1906, Mar. 7	3,500.00
1899, June 1..	Central Savings Bank	4	12,000.00	240.10 June 1 and Dec. 1	240.10 Dec. 1	420.00	1906, June 1	3,000.00
1899, June 1..	Central Savings Bank	4	7,000.00	140.00 June 1 and Dec. 1	140.00 Dec. 1	245.00	1906, June 1	1,750.00
1899, June 10	Central Savings Bank	4	13,200.00	264.00 June 10 and Dec. 10	264.00 Dec. 10	462.00	1906, June 10	3,300.00
1899, July 11	Central Savings Bank	4	4,809.00	96.00 Jan. 11 and July 11	96.00 July 11	192.00	1906, July 11	1,200.00
1899, Aug. 9..	Lowell Institution for Savings	3½	11,800.00	184.37 Feb. 9 and Aug. 9	184.37 Aug. 9	368.75	1906, Aug. 9	2,990.00
1899, Aug. 9..	Lowell Institution for Savings	3½	12,000.00	187.50 Feb. 9 and Aug. 9	187.50 Aug. 9	375.00	1906, Aug. 9	3,000.00
1899, Sept. 15	Lowell Institution for Savings	3½	11,200.00	175.00 March 15 and Sept. 15	175.00 Sept. 15	350.00	1906, Sept. 15	2,800.00
1899, Nov. 6..	Lowell Institution for Savings	3⅞	2,440.00	46.36 May 6 and Nov. 6	46.36 Nov. 6	92.72	1906, Nov. 6	610.00
1899, Nov. 17	Lowell Institution for Savings	4	10,400.00	208.00 May 17 and Nov. 17	208.00 Nov. 17	416.00	1906, Nov. 17	2,600.00
1899, Dec. 23	Lowell Institution for Savings	4	4,000.00	80.00 June 23 and Dec. 23	80.00 Dec. 23	160.00	1906, Dec. 23	1,000.00

DUE FROM THE CITY ON ORDINARY DEBT — Continued

Date of Securities	To Whom Payable	Amount	Rate	Interest — When Due	Interest Due in 1906	Notes and Instalments When Due	Payments Due 1906
1899, Dec. 30	Lowell Institution for Savings	5,600.00	4	112.00 June 30 and Dec. 30	224.00	1906, Dec. 30	1,400.00
1900, Feb. 1..	Washington Institution for Savings ...	3,000.00	3½	42.50 Feb. 1 and Aug. 1	94.50	1906, Feb. 1	600.00
1900, April 3	Lowell Institution for Savings	34,000.00	3½	531.25 April 3 and Oct. 3	956.25	1906, April 3	6,800.00
1900, April 14	Lowell Institution for Savings	1,750.00	3½	27.34 April 14 and Oct. 14	49.22	1906, April 14	350.00
1900, April 21	Lowell Institution for Savings	19,250.00	3½	300.75 April 21 and Oct. 21	541.41	1906, April 21	3,850.00
1900, May 22	Lowell Institution for Savings	6,000.00	3½	93.75 May 22 and Nov. 22	168.75	1906, May 22	1,200.00
1900, Aug. 6..	Central Savings Bank	15,000.00	4	300.00 Feb. 6 and Aug. 6	600.00	1906, Aug. 6	3,000.00
1900, Oct. 15	Washington Savings Institution.	9,000.00	3½	157.50 April 15 and Oct. 15	315.00	1906, Oct. 15	1,800.00
1900, Oct. 31	Lowell Institution for Savings	15,000.00	3½	262.50 April 30 and Oct. 31	525.00	1906, Oct. 31	3,000.00
1900, Dec. 26	Commonwealth of Massachusetts	3,750.00	3½	57.49 June 26 and Dec. 26	114.38	1906, Dec. 26	750.00
1901, May 4..	Central Savings Bank	5,420.00	3½	91.35 May 4 and Nov. 4	167.48	1906, May 4	870.00
1901, May 23	Lowell Institution for Savings	21,600.00	3¼	351.00 May 23 and Nov. 23	643.50	1906, May 23	3,600.00
1901, July 27	Lowell Institution for Savings	35,700.00	3¼	580.12 Jan. 27 and July 27	1,160.25	1906, July 27	5,950.00
1901, Aug. 19	Lowell Institution for Savings	33,000.00	3½	544.50 Feb. 19 and Aug. 19	1,089.00	1906, Aug. 19	3,500.00
1901, Aug. 19	Washington Institution for Savings ...	9,000.00	3½	148.50 Feb. 19 and Aug. 19	297.00	1906, Aug. 19	1,500.00
1901, Nov. 15	Lowell Institution for Savings	17,940.00	3½	296.01 May 15 and Nov. 15	592.02	1906, Nov. 15	2,990.00
1901, Dec. 20	Lowell Institution for Savings	8,000.00	3½	132.00 June 20 and Dec. 20	264.00	1906, Dec. 20	8,000.00

1901, Dec. 20	Lowell Institution for Savings	7,200.00	3 ³ / ₁₀	118.80 June 20 and Dec. 20	1906, Dec. 20	1,200.00
1902, June 3.	Lowell Institution for Savings	44,730.00	3 ¹ / ₄	726.86 623.03 June 3 and Dec. 3	1906, June 3	6,390.00
1902, July 14	Central Savings Bank	3,500.00	3 ¹ / ₄	57.87 56.88 Jan. 14 and July 14	1906, July 14	500.00
1902, Sept. 4.	Lowell Institution for Savings	38,836.00	3 ³ / ₈	655.36 655.36 March 4 and Sept. 4	1906, Sept. 4	5,548.00
1902, Sept. 11	Lowell Institution for Savings	43,158.50	3 ³ / ₈	728.30 728.30 March 11 and Sept. 11	1906, Sept. 11	6,165.50
1902, Nov. 4.	Washington Institution for Savings ...	800.00	3 ¹ / ₂	14.00 14.00 May 4 and Nov. 4	1906, Nov. 4	400.00
1902, Nov. 4.	Washington Institution for Savings ...	5,845.00	3 ¹ / ₂	102.29 102.29 May 4 and Nov. 4	1906, Nov. 4	835.00
1902, Dec. 31	Lowell Institution for Savings	14,000.00	3-55	248.50 248.50 June 30 and Dec. 31	1906, Dec. 31	2,000.00
1903, June 1.	Lowell Institution for Savings	78,160.00	3 ³ / ₈	1416.65 1239.56 June 1 and Dec. 1	1906, June 1	9,770.00
1903, July 1.	Bond, Goodwin & Co.....	108,000.00	4	2160.00 2160.00 Jan. 1 and July 1	1906, July 1	13,500.00
1903, Sept. 8.	Lowell Institution for Savings	35,600.00	3 ³ / ₈	689.75 689.75 March 8 and Sept. 8	1906, Sept. 8	4,450.00
1903, Sept. 26	Lowell Institution for Savings	20,000.00	3 ³ / ₁₀	390.00 390.00 March 26 and Sept. 26	1906, Sept. 26	2,500.00
1903, Nov. 13	Washington Institution for Savings ...	6,896.00	3 ³ / ₈	133.61 133.61 May 13 and Nov. 13	1906, Nov. 13	862.00
1903, Dec. 31	Lowell Institution for Savings	61,200.00	3 ³ / ₁₀	1193.40 1193.40 June 30 and Dec. 31	1906, Dec. 31	7,650.00
1904, May 24	Lowell Institution for Savings	45,000.00	3 ³ / ₈	815.63 725.00 May 24 and Nov. 24	1906, May 24	5,000.00
1904, Aug. 9.	Lowell Institution for Savings	71,100.00	3 ³ / ₈	1288.69 1288.69 Feb. 9 and Aug. 9	1906, Aug. 9	7,900.00
1904, Nov. 5.	Lowell Institution for Savings	47,610.00	3 ³ / ₈	862.93 862.93 May 5 and Aug. 5	1906, Nov. 5	5,290.00
1904, Dec. 31	Lowell Institution for Savings	65,262.60	3 ³ / ₈	1182.88 1182.89 June 30 and Dec. 31	1909, Dec. 31	7,251.40
1905, April 6.	Lowell Institution for Savings	60,000.00	3 ³ / ₈	1012.50 911.25 April 6 and Oct. 6	1906, April 6	6,000.00
1905, June 1.	Lowell Institution for Savings	71,500.00	3 ¹ / ₂	1251.25 1126.13 June 1 and Dec. 1	1906, June 1	7,150.00

DUE FROM THE CITY ON ORDINARY CITY DEBT — Continued

Date of Securities	To Whom Payable	Amount	Rate	Interest — When Due	Interest Due in 1906	Notes and Instalments When Due	Payments Due 1906
1905, Sept. 26	Lowell Institution for Savings	83,300.00	3 ½	1457.75 Mar. 26 and Sept. 26	2,915.50	1906, Sept. 26	8,330.00
1905, Oct. 26	Lowell Institution for Savings	77,400.00	3 ½	1354.50 April 26 and Oct. 26	2,709.00	1906, Oct. 26	7,740.00
1905, Nov. 5..	Washington Institution for Savings ...	2,200.00	3 ½	38.50 May 28 and Nov. 28	77.00	1906, Nov. 28	220.00
1905; Dec. 30	Lowell Institution for Savings	54,000.00	3 ½	945.00 June 30 and Dec. 31	1,800.00	1906, Dec. 30	5,400.00
1905, Dec. 30	Washington Institution for Savings ...	11,750.00	3 ½	205.62 June 30 and Dec. 31	411.25	1906, Dec. 30	1,175.00
	Amount of City Debt ..	2,409,908.10		Interest on Ordinary City Debt	89,324.29	Instalments on City Debt	274,936.00
	Amount of Water Loan	1,145,700.00		Interest on Water Loan	45,828.00	Payments	16,600.00
	Total Amount of City Debt	3,555,608.10		Total Int. on City Debt	\$135,152.29	Tot. Instal.	\$231,536.90
	Amount of Sinking Funds	703,793.46					
	Net City Debt.....	\$2,851,814.64					

DUE FROM THE CITY ON WATER LOAN

DECEMBER 31, 1905

Date of Securities	To Whom Payable	Amount	Rate	Interest — When Due	Interest Due in 1906	Notes and Installments When Due	Payments Due, 1906
1881, Nov. 1	Blake Bros. & Co.....	75,000.00	4	May 1 and Nov. 1	3,000.00	1911, Nov. 1	
1890, Nov. 1	Sundry persons (bonds).	1,000,000.00	4	May 1 and Nov. 1	40,000.00	1920, Nov. 1	
*1895, Aug. 7	Sundry persons.....	25,000.00	4	Feb. 7 and Aug. 7	1,000.00	1906, Aug. 7	5,000.00
*1897, Nov. 8	Lowell Institution for Savings.....	8,200.00	4	May 8 and Nov. 8	328.00	1906, Nov. 8	4,100.00
*1900, Aug. 8	Estabrook & Co.....	37,500.00	4	Feb. 8 and Aug. 8	1,500.00	1906, Aug. 8	7,500.00
		<u>1,145,700.00</u>			<u>45,828.00</u>		<u>16,600.00</u>

* Driven Well Plant

LOANS

Ennell Street School	60,000.00	
Sewer Construction	100,000.00	
Paving, Painting and Repairing Centralville Bridge	11,000.00	
Macadamizing Stackpole Street	3,500.00	
Macadamizing Durant Street	5,500.00	
Macadamizing Willow Street	1,500.00	
New Coping at Pawtucket School	1,500.00	
New Boiler in Butler School	1,200.00	
New Boiler in Morrill School	800.00	
New Boiler in Kirk Street School	500.00	
Purchase of Gormley Estate	5,200.00	
Streets	27,500.00	
Schools	74,000.00	
Purchase of Lang Property	2,200.00	
Public Buildings and School Houses	10,000.00	
Extension of Ina Street	850.00	
West Tenth Street Extension	900.00	
Department Deficiencies	54,000.00	
		<u>360,150.00</u>

GENERAL TREASURY FUND RECEIPTS

City Cemeteries	6,417.00
City Clerk	1,399.34
City Treasurer	2,192.42
City Weigher	176.79
Fire Department	298.15
Health	3,727.41
Lowell City Hospital and Almshouse	1,059.16
Schools	6,799.76
Paupers, Out-door Relief	4,616.37
Police	9,838.74
Sewers	16,465.04
Streets	9,129.52
Watering Streets	16,846.45

GENERAL TREASURY FUND RECEIPTS—Continued

Interest	28,713.59	
Liquor Licenses	174,102.00	
Lighting	23.40	
Public Buildings	2,530.02	
Incidentals	3,691.26	
Inspector of Milk	121.50	
State Aid	14,896.50	
Military Aid	1,981.50	
Soldiers' Relief	531.69	
Excise Tax	7,555.66	
Corporation Tax	77,903.38	
National Bank Tax	8,617.47	
Street Railway Tax	6,557.34	
City Sealer	314.05	
Parks	1,120.00	
Huntington Hall	59,498.42	
School Houses	13.50	
		<u>467,037.43</u>

SCHEDULE OF PUBLIC PROPERTY**Buildings**

City Hall	410,000.00	
Memorial Building	200,000.00	
Police Station	88,000.00	
City Scales	750.00	
Public Landing and Police Stable	9,500.00	
Lands and Building on Fletcher Street	3,000.00	
Lands and Buildings on Fletcher, Cross, Broadway and Lagrange Streets	100,000.00	
City Farm and Buildings	200,000.00	
Rifle Range	14,000.00	
		<u>1,025,250.00</u>

Fire Engine Houses

Branch Street	22,000.00
Central Street	11,000.00
Fletcher Street	18,000.00

SCHEDULE OF PUBLIC PROPERTY—Continued

Fire Engine Houses—Continued

Fourth Street	15,000.00	
Gorham Street	27,000.00	
High Street	24,000.00	
Lincoln Street	5,500.00	
Lawrence Street	26,000.00	
Merrimack Street	5,000.00	
Mammoth Road	15,000.00	
Palmer Street	90,000.00	
Westford Street	18,000.00	
Warren Street	11,000.00	
		288,000.00

School Houses

High School	250,000.00
High School Annex	105,000.00
Bartlett (old)	25,000.00
Bartlett (new)	108,000.00
Butler	63,000.00
Colburn	25,000.00
Edson	25,000.00
Franklin	25,000.00
Green	105,000.00
Highland	67,000.00
Lincoln	77,000.00
Moody (new)	80,000.00
Moody (old)	20,000.00
Mann	25,000.00
Pawtucket	53,000.00
Varnum	110,000.00
Primary Schools:	
Oakland	12,000.00
Powell Street	8,000.00
Plain Street	21,000.00
London Street Annex	1,000.00
London Street	5,000.00
School Street	7,500.00
Pond Street	6,000.00
High Street	9,000.00
Carter Street	52,000.00
Fayette Street	3,500.00

Cross Street	24,000.00
Billings Street	16,000.00
Cabot Street	23,500.00
Middlesex Village (old)	2,000.00
Middlesex Village (new)	16,000.00
West Sixth Street	7,000.00
Mammoth Road	1,500.00
Lakeview Ave. and Annex	9,500.00
Ames Street	9,500.00
Tenth Street	9,000.00
Favor Street	28,000.00
Cottage Street	4,500.00
Charles Street	20,000.00
Training	31,000.00
Cheever Street	12,000.00
Chapel Street	4,000.00
Central Street	13,500.00
Howard Street	5,000.00
Worthen Street	25,000.00
Lyons Street	20,000.00
Dover Street	13,500.00
Morrill School	19,000.00
Agawam Street	9,000.00
Grand Street	5,000.00
Kirk Street	18,000.00
Weed Street	10,500.00
Lexington Ave.	10,000.00
Moody Street	20,000.00
Pine Street	23,000.00
Lilley Ave.	1,000.00
Highland Annex	3,700.00
Ennell Street School	60,000.00
Lyons Street Annex	5,200.00
	1,766,900.00

Lot of Land on Chelmsford Street	5,000.00
Lot of land on Fletcher and Bower Street	20,000.00
Lot of Land on Tenth Street	5,000.00
North Common	100,000.00

SCHEDULE OF PUBLIC PROPERTY—Continued

South Common	200,000.00	
Mount Vernon Park	4,350.00	
Belvidere Park	20,000.00	
Wilson Park	200.00	
Rogers Fort Hill Park	150,000.00	
Tyler Park	8,000.00	
Varnum Park	6,000.00	
Monument Square	15,000.00	
Lang Land	2,200.00	
Cremator	10,000.00	
		545,750.00
		3,625,900.00

Water Works

The Real Estate and Personal Property belonging to the City, occupied and used by the Water Works	4,375,888.67
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Burial Grounds Owned by the City

- No. 1 Burial Ground on School Street.
- No. 2 Burial Ground on Gorham Street.
- Edson Cemetery on Gorham Street.

**Personal Property Owned by the City in Charge of the
Several Departments**

Auditor	50.00
City Clerk	250.00
City Treasurer	500.00
City Weigher	250.00
City Sealer	250.00
City Messenger	250.00
City Cemeteries	1,520.25
Clerk of Committees	170.50
Engineering	3,355.60
Elections	1,150.00
Fire Department	159,740.00
Health	10,258.80
Inspector of Milk	827.99
Inspector of Wires	655.44
Law	3,030.35

SCHEDULE OF PUBLIC PROPERTY—Continued**Personal Property Owned by the City in Charge of the
Several Departments—Continued**

Library	70,500.00	
Mayor	250.00	
Paupers, Out Door Relief	4,000.00	
Lowell City Hospital and Almshouse	23,025.78	
Police	30,181.02	
Public Buildings	15,091.74	
Parks	4,821.85	
Registrars	50.00	
Schools	54,368.10	
Streets	42,797.97	
Sewers	22,313.47	
State Aid	250.00	
Supply	530.94	
Watering Streets	7,442.00	
Bell and Clock, High St. Church	1,000.00	
Lighting	17,000.00	
Boulevard	3,078.65	
		<u>478,960.45</u>

Sewer Construction and Surface Drains Laid in 1905**Sewer Construction**

<u>STREET</u>	<u>TOTAL FEET</u>	<u>COST</u>
Burns	123	262.15
Bowden	402	1,575.15
Bowden St. and Nelson Ave.	392	12,334.23
Cosgrove St., 187 ft. relaid	625	1,236.31
Chippewa	460	1,190.14
Dracut	313.4	1,603.08
Ennell and Hildreth	206	1,394.21
Ennell	454	2,189.14
Elmwood Ave.	302	413.92
Fletcher and Brooks	294	2,174.47
Fulton	257	498.75
High	219	663.19
Hoyt Ave.	1,020	2,206.60
Mount Hope, from 4th Ave. east	221.5	908.64

SCHEDULE OF PUBLIC PROPERTY—Continued
Sewer Construction and Surface Drains Laid in 1905
Sewer Construction—Continued

STREETS	TOTAL FEET	COST
Mount Hope from 3d Ave. east	149.7	697.54
Mount Hope from 5th Ave. east	261	1,595.36
Middlesex	721	1,323.02
New York	341	498.58
Olney	259	807.02
Parker	903	6,120.65
Pine	60	607.77
Rhodora	100	1,029.60
Riverside and Varnum	775	7,021.22
Rogers	1,189	6,282.19
Starbird	480	898.74
Stromquist Ave.	377	11,453.54
Varnum Ave.	100	1,338.03
Weed	100	338.75
Willis	438	2,247.20
Wentworth Ave.	989	10,301.61
	<u>12,531.6</u>	<u>81,210.80</u>
Cost of Sewers previous to 1905		2,905,405.84
Total cost of Sewerage System to Dec. 31, 1905		<u>2,986,616.64</u>

Sewer Drains

STREETS	TOTAL FEET	COST
Birch		
Laurel		
Rogers		
Sycamore		
Wentworth Ave.		
Oakland System	2,841	9,495.05
Holden		
Princeton		
Westford		
Tyler Park System	2,206	6,155.20
		<u>15,650.25</u>

SCHEDULE OF PUBLIC PROPERTY—Continued

Sewer Drains—Continued

Lineal feet of Sewers laid in 1905	12,531.6 or 2.37 miles.
Sewers laid previously	93.29 miles.
	95.66 miles.
Deduct 187 lineal feet of Sewers relaid	.03 miles
Length of Sewers, Dec. 31, 1905	95.63 miles

Stromquist Ave. sewer completed 1905. Total length 1,789 feet.

Total cost, \$38,060.32.

Lineal feet surface drains laid in 1905, 5,047 feet. Cost \$15,650.25.

DEPARTMENT EXPENSES FOR THE PAST TEN YEARS

DEPARTMENTS	Expended in 1896	Expended in 1897	Expended in 1898	Expended in 1899	Expended in 1900	Expended in 1901	Expended in 1902	Expended in 1903	Expended in 1904	Expended in 1905
Abatement of Taxes	22,022 74	18,263 81	19,951 04	22,623 27	48,809 75	25,104 44	22,387 09	25,650 43	72,408 08	8,519 58
Assessors	21,298 81	21,500 00	20,872 23	14,813 56	14,275 33	14,083 63	14,173 50	14,057 64	13,681 71	14,142 21
Auditor	3,102 44	3,459 15	3,452 16	3,422 66	3,540 80	3,957 62	3,883 10	4,125 57	4,067 84	4,190 00
Care of City Hall	1,560 00	7,302 52	7,708 54	7,609 14	6,873 36	7,355 83	7,346 07	7,277 54	7,281 57	7,183 84
City Cemeteries	4,456 05	8,487 94	8,459 13	20,564 55	11,642 70	8,181 28	8,958 17	13,281 87	8,971 63	8,999 60
City Clerk	6,624 41	4,869 55	4,835 59	4,835 40	5,075 52	5,119 15	5,257 40	5,695 81	5,691 03	5,906 27
City Treasurer	9,055 75	9,582 44	9,376 94	10,694 29	10,729 95	11,128 87	11,138 50	10,687 70	11,362 58	11,105 85
City Seal	300 00	395 17	382 84	372 25	400 00	428 75	424 15	430 00	416 65	415 84
City Weigher	800 00	800 00	816 45	800 00	812 22	812 22	811 75	823 30	816 78	816 78
City Messenger	6,964 52	1,733 32	1,651 43	1,659 56	1,494 23	1,490 43	2,591 11	3,181 52	3,150 79	3,026 12
Clerk of Committes						1,274 32	1,359 80	1,382 46	1,340 85	1,387 93
Clerk of Common Council	250 00	300 00	300 00	300 00	300 00	300 00	300 00	300 00	300 00	300 00
Elections	7,259 61	11,990 31	10,891 41	11,982 76	6,692 56	6,679 71	6,492 56	6,810 86	13,303 50	12,956 69
Engineering		15,950 39	16,055 74	16,055 74	16,352 30	15,433 09	16,224 29	16,216 36	15,093 48	16,247 42
Fire Department	132,920 29	129,804 22	119,369 54	119,026 44	437,788 09	122,377 96	127,906 02	131,955 38	135,615 75	142,117 57
Fish Warden	9 17				40 00	40 00	40 00	40 00	40 00	40 00
Pound Keeper	5 00				5 00	5 00	5 00	5 00	5 00	5 00
Health	45,551 84	41,026 78	40,830 23	40,830 23	46,266 11	46,673 41	52,131 41	46,168 01	46,451 97	61,707 39
Heating City Hall and Memo. Bldg	8,854 18	4,501 93	6,067 98	5,751 53	7,398 94	6,266 34	5,811 54	7,874 44	7,928 38	7,853 77
Huntington Hall	5,221 42	5,109 44	6,536 76	22,458 93	34,719 21	4,011 39	4,764 96	5,469 56	4,556 08	6,295 00
Rifle Range	12,647 65	674 81	697 63	670 29	688 78	787 87	702 48	698 57	999 82	699 16
Incidentals	7,098 51	9,816 61	7,526 26	6,068 04	8,767 93	2,759 71	4,746 75	2,736 30	2,573 61	3,254 94
Insurance		1,425 00	1,625 00	1,625 00		2,203 13	4,710 01	3,133 23	5,287 77	2,366 90
Inspector of Milk and Vinegar		1,927 88	2,368 81	2,368 81	2,329 97	2,321 31	2,309 65	2,384 55	2,353 87	2,368 59
Inspector of Animals and Provisions	500 00	500 00			500 00	500 00	500 00	500 00	500 00	500 00
Inspector of Wires						3,947 61	3,947 61	2,623 81	2,645 74	2,674 98
Law	4,568 35	7,619 73	14,521 26	2,110 73	13,600 99	9,295 74	18,301 21	7,623 11	5,542 25	6,070 44
Library	17,129 52	14,671 62	15,065 34	24,927 58	15,795 00	16,000 00	16,000 00	16,000 00	15,379 39	15,379 39
Lighting	86,475 20	87,091 20	87,968 40	85,917 59	85,917 59	95,081 67	98,401 14	99,107 90	101,378 76	101,069 86
Liquor Licenses	38,135 50	38,338 75	39,238 50	41,937 75	41,937 75	43,110 50	43,060 75	43,060 75	43,250 00	43,524 75
Mayor	3,101 97	5,024 87	4,691 70	4,425 09	4,301 26	4,970 65	5,049 44	4,525 67	4,386 22	4,518 72
Park Department	12,093 64	12,942 55	13,107 65	11,786 26	16,128 74	11,707 88	16,381 77	10,052 20	13,985 85	14,471 08
Charity Department	116,139 29	105,623 13	108,880 42	114,308 78	112,206 74	121,203 19	127,419 16	145,200 68	124,728 04	117,416 73
Police	120,592 83	120,620 67	123,380 84	123,380 84	134,054 09	137,275 14	130,935 24	143,180 82	145,854 28	144,056 62
Public Buildings	22,867 06	15,096 88	16,336 33	19,008 05	19,401 63	16,848 32	16,928 16	22,723 52	31,305 95	33,445 06
Registrars of Voters	2,000 00				3,719 84	3,819 92	3,933 38	3,851 89	4,085 61	5,524 25
Schools	264,637 13	277,386 61	273,458 77	272,654 13	275,820 81	296,144 67	284,580 00	312,522 74	299,592 79	309,240 84
School Houses	258,053 20	97,529 97	108,929 36	65,115 23	103,543 71	48,843 22	57,488 75	59,179 59	71,733 23	108,382 06
Sewer	118,261 20	120,962 76	120,886 44	118,337 08	124,248 83	80,661 33	128,851 37	100,863 85	143,104 32	125,682 77
State Aid	15,631 00	16,622 36	16,399 73	17,049 38	16,939 49	16,667 63	17,240 01	16,863 35	17,157 14	17,673 50
Military Aid	6,365 00	7,153 00	6,625 00	8,063 00	6,966 00	7,664 00	6,332 00	4,710 00	8,931 00	3,170 00
Soldiers' Relief	6,651 64	7,904 97	8,210 23	8,501 69	9,278 36	8,454 86	8,454 86	9,066 35	9,071 01	9,988 64
Streets	266,910 21	136,743 76	219,947 34	306,918 46	175,164 14	181,239 89	280,297 98	226,917 84	216,514 32	217,865 48
Supply		6,062 68	5,537 47	5,633 29	5,270 22	7,287 79	6,246 84	6,385 87	6,367 21	6,308 12
Watering Streets	10,235 62	9,080 02	9,337 90	10,620 53	10,784 15	12,436 19	14,194 35	16,588 63	16,855 77	16,090 74
State Supervisors						784 00	800 00	872 00	824 00	800 00
Water Works	268,845 15	259,567 70	197,469 00	202,012 78	265,038 04	233,541 43	208,408 99	200,232 47	181,288 24	189,478 12
Temporary Loans	425,000 00	925,000 00	925,000 00	1,025,000 00	925,000 00	900,000 00	1,000,000 00	1,100,000 00	1,200,000 00	1,300,000 00
Taxes	143,658 94	137,409 96	130,488 11	81,168 07	133,026 38	144,470 58	132,199 06	87,356 09	153,260 01	180,896 14
City Debt	246,690 00	266,080 00	304,703 00	303,230 00	339,430 00	325,590 00	377,110 00	396,438 50	367,390 79	284,221 00
Interest	124,622 71	119,731 07	114,144 78	126,544 87	130,630 00	124,807 60	124,414 55	144,067 62	117,259 93	130,544 35
Sinking Funds	39,300 00	43,300 00	43,300 00	43,300 00	43,300 00	43,300 00	43,300 00	41,300 00	38,300 00	35,300 00

CITY DEBT AND PAYMENTS FROM 1897 TO 1905 INCLUSIVE

	1897	1898	1899	1900	1901	1902	1903	1904	1905
Ordinary City Debt	2,580,340.29	2,485,350.29	2,620,050.29	2,647,020.29	2,550,780.29	2,518,890.29	2,396,275.29	2,408,756.79	2,317,380.00
Borrowed during the year..	145,100.00	409,300.00	306,100.00	213,500.00	256,100.00	222,885.00	387,320.00	254,414.00	360,150.00
Total	2,725,440.29	2,894,650.29	2,926,150.29	2,860,520.29	2,806,880.29	2,741,775.29	2,783,595.29	2,663,170.79	2,677,530.00
Paid during the year	240,090.00	274,600.00	279,130.00	309,740.00	287,990.00	345,500.00	374,838.50	345,790.79	267,621.90
Total Ordinary City Debt..	2,485,350.29	2,620,050.29	2,647,020.29	2,550,780.29	2,518,890.29	2,396,275.29	2,408,756.79	2,317,380.00	2,409,908.10
Amount of Water Debt	1,275,000.00	1,290,000.00	1,259,900.00	1,229,800.00	1,274,700.00	1,237,100.00	1,205,500.00	1,183,900.00	1,162,300.00
Borrowed during the year..	41,000.00			75,000.00					
Total	1,316,000.00			1,304,800.00					
Paid during the year	26,000.00	30,100.00	30,100.00	30,100.00	37,600.00	31,600.00	21,600.00	21,600.00	16,600.00
Total Water Debt.....	1,290,000.00	1,259,900.00	1,229,800.00	1,274,700.00	1,237,100.00	1,205,500.00	1,183,900.00	1,162,300.00	1,145,700.00
Total Permanent City Debt	3,775,350.29	3,879,950.29	3,876,820.29	3,825,480.29	3,755,990.29	3,601,775.29	3,592,656.79	3,479,680.00	3,555,608.10
Ordinary City Debt	2,485,350.29	2,620,050.29	2,647,020.29	2,550,780.29	2,518,890.29	2,396,275.29	2,408,756.79	2,317,380.00	2,409,908.10
Sinking Funds for Payment	225,725.66	259,953.81	294,332.19	320,522.92	356,408.47	342,237.40	285,709.51	244,017.40	265,908.33
Net Ordinary City Debt ..	2,259,624.63	2,360,096.48	2,352,688.10	2,230,257.37	2,162,481.82	2,054,037.89	2,123,047.28	2,073,362.60	2,143,999.77
Water Debt	1,290,000.00	1,259,900.00	1,229,800.00	1,274,700.00	1,237,100.00	1,205,500.00	1,183,900.00	1,162,300.00	1,145,700.00
Sinking Funds for Payment	220,846.52	246,916.45	273,623.35	287,226.20	312,894.98	343,201.43	373,505.74	406,430.22	437,885.13
Net Water Debt	1,069,153.48	1,012,983.55	956,176.65	987,473.80	924,205.02	862,298.57	810,394.26	755,869.78	707,814.87
Total Net Debt	3,328,778.11	3,373,080.03	3,308,864.75	3,217,731.17	3,086,686.84	2,916,336.46	2,933,441.54	2,829,232.38	2,851,814.64

VALUATION OF REAL ESTATE AND PERSONAL PROPERTY WITH TAX RATE

Year	Polls	Personal	Real Estate	Total	Rate	Non-Resident Bank Stock	Grand Total Tax
1890	20,021	\$17,037,462	\$45,316,150	\$62,353,612	\$17.00	\$17,096.24	\$1,117,188.12
1891	20,931	17,535,390	46,552,885	64,088,275	15.60	15,956.07	1,057,638.66
1892	22,789	17,213,834	47,503,470	64,717,304	16.80	17,616.16	1,150,506.87
1893	23,511	18,004,970	50,851,600	68,856,570	16.40	17,397.53	1,193,667.27
1894	23,394	17,046,966	52,044,570	69,091,536	17.40	16,786.71	1,265,587.45
1895	23,735	16,526,492	52,359,240	68,885,732	18.00	17,557.16	1,304,970.34
1896	25,320	15,967,762	53,942,710	69,910,472	15.00	14,941.02	1,114,238.10
1897	25,140	15,709,260	54,680,020	70,389,280	17.40	17,302.47	1,292,355.95
1898	24,526	15,350,323	55,626,980	70,977,303	18.00	17,161.06	1,343,804.51
1899	24,882	15,374,232	55,881,355	71,255,587	19.60	18,366.73	1,469,642.32
1900	25,837	15,497,630	56,031,885	71,529,515	18.80	17,330.59	1,413,759.47
1901	25,059	15,425,843	56,248,745	71,674,588	18.60	16,449.04	1,399,714.38
1902	25,263	15,194,442	56,709,315	71,903,757	19.60	10,974.00	1,470,813.64
1903	24,559	15,178,418	56,825,610	72,004,028	20.40	12,054.30	1,530,054.47
1904	25,555	14,841,767	56,773,140	71,614,907	20.00	11,239.36	1,494,647.50
1905	26,087	14,433,923	57,211,795	71,645,718	20.20	12,522.12	1,511,939.62

LOANS NEGOTIATED BY THE CITY IN THE PAST
FIFTEEN YEARS

Year	For Waterworks	For Current Expenses	For Permanent Improvements	Total Loans
1890	\$600,000.00	\$ 75,750.00	\$150,250.00	\$826,000.00
1891	260,000.00	117,000.00	614,000.00	991,000.00
1892	100,000.00	108,000.00	435,000.00	643,000.00
1893	100,000.00	137,000.00	237,900.00	474,900.00
1894	150,000.00	100,000.00	304,210.29	554,210.29
1895	75,000.00	100,000.00	187,000.00	362,000.00
1896		50,000.00	364,000.00	414,000.00
1897	41,000.00		145,100.00	186,100.00
1898		173,000.00	236,300.00	409,300.00
1899		67,100.00	239,000.00	306,100.00
1900	75,000.00		213,500.00	288,500.00
1901		40,000.00	216,100.00	256,100.00
1902		26,500.00	196,385.00	222,885.00
1903		43,860.00	343,460.00	387,320.00
1904		113,716.00	140,698.00	254,414.00
1905		165,500.00	194,650.00	360,150.00
	\$1,401,000.00	\$1,317,426.00	\$4,217,553.29	\$6,935,979.29

EXPENDITURES AND VALUATIONS FOR FIFTY YEARS

Year	Expenditures	Tax Rate	Total City Valuation
1860	\$ 267,192.07	\$ 8.40	\$22,155,176.00
1865	756,342.81	14.60	21,076,360.00
1870	778,636.03	13.90	25,972,488.00
1875	1,162,922.95	16.20	38,690,495.00
1880	1,398,683.48	16.20	41,102,016.00
1885	1,833,483.69	16.00	51,351,780.00
1890	3,613,584.04	17.00	62,353,612.00
1895	2,903,410.60	18.00	68,885,732.00
1900	3,353,844.41	18.80	71,529,515.00
1905	3,738,502.84	20.20	71,645,718.00

ACCOUNT OF THE CITY TREASURER AND COLLECTOR OF TAXES FOR THE YEAR 1905

Lowell, Mass., Jan. 1, 1906.

To the Honorable, the City Council:

Gentlemen: I have the honor to submit the following report of the receipts and expenditures of the City of Lowell for the financial year 1905.

Respectfully submitted,

ANDREW G. STILES,

City Treasurer and Collector of Taxes.

Andrew G. Stiles, City Treasurer and Collector of Taxes, in account with the City of Lowell for the financial year 1905:

DR. To cash received on account of:

Cash balance Jan. 1, 1905	255,336.03
Cemeteries	.75
Engineering	9,024.06
Fire Dept. Sundries	9.53
Health Office, Sundries	10.01
Health Yard, Labor	817.75
Law, Sundries	7.50
Parks, Sundries	227.30
Almshouse, Grain, Groceries, Provisions	8,121.38
Outdoor Relief, General Sundries	218.61
Police, Salaries	2,203.75
Police, Sundries	2.50
Public Buildings, Labor	940.25
Public Buildings, Electric Power	110.08
Public Buildings, Materials	360.75
Schools	30.00
School Houses	3,461.30
Sewers, Maintenance, Labor	504.00
Sewers, Maintenance, Sundries	3,959.30
State Aid—Aid	26.00
Military Aid	8.00
Soldiers' Relief	4.00

TREASURER'S REPORT

ACCOUNT OF THE TREASURER—Continued

DR.	To cash received on account of—Continued	
Streets, Labor	80.67	
Streets, Yard Labor	307.25	
Streets, Sundries	1,962.13	
Watering Streets, Sundries	1,384.00	
Water Works	202,434.62	
City Debt	16,600.00	
Sewers, Construction	10.00	
Execution of Court, G. W. Marshall	550.00	
Health, Small Pox	.49	
		507,812.01

General Treasury Fund Receipts

Cemeteries	6,417.00
Clerk	1,399.34
Treasurer	2,192.42
Sealer	314.05
Weigher	176.79
Fire Department	298.15
Health	3,727.41
Huntington Hall	59,498.42
Inspector Milk	121.50
Almshouse	1,059.16
Outdoor Relief	4,616.37
Police	9,738.74
Public Buildings	2,530.02
Schools	6,799.76
Sewers	16,465.04
Streets	9,129.52
State Aid	14,896.50
Military Aid	1,981.50
Soldiers' Relief	531.69
Watering Streets	16,846.45
Interest	28,713.59
Temporary Loans	1,300,000.00
Taxes, 1901	527.16
Taxes, 1902	2,661.05
Taxes, 1903	171,505.85
Taxes, 1904	160,576.59
Taxes, 1905	1,160,421.68

ACCOUNT OF THE TREASURER—Continued

General Treasury Fund Receipts—Continued

DR.

Incidentals	3,691.26	
Corporation Tax	77,903.38	
Liquor Licenses	174,102.00	
Lighting	23.40	
Excise Tax	7,555.66	
Loans	360,150.00	
Parks	1,120.00	
School Houses	13.50	
National Bank Tax	8,617.47	
Street Railway Tax	6,557.34	
		3,622,879.76
		<u>4,130,691.77</u>

CR. By cash paid on account of:

Abatement of Taxes	419.16
Assessors, Salaries	12,080.37
Assessors, Sundries	2,061.84
Auditor, Salaries	3,516.00
Auditor, Sundries	674.00
Care of City Hall, Labor	5,294.50
Care of City Hall, Police Officer	1,003.75
Care of City Hall, Sundries	895.59
Cemeteries	8,999.60
Clerk, Salaries	4,628.00
Clerk, Sundries	1,178.27
Treasurer, Salaries	7,322.00
Treasurer, Sundries	3,783.85
Sealer, Salaries	350.00
Sealer, Sundries	64.24
Weigher, Salaries	800.00
Weigher, Sundries	16.63
Messenger, Salaries	1,200.00
Messenger, Sundries	399.70
Messenger, Lighting	1,426.42
Clerk of Committees, Salaries	1,200.00
Clerk of Committees, Sundries	187.93
Clerk of Common Council	300.00
Elections	12,056.69

ACCOUNT OF THE TREASURER—Continued

CR. By cash paid on account of—Continued	
Fish Warden	40.00
Engineering	16,247.42
Fire Dept. Salaries and Labor	110,803.83
Fire Dept. Sundries	25,704.97
Fire Dept. Repairs Engines 4 and 6	3,150.00
Huntington Hall	625.00
Fire Dept. Underground Wires	342.65
Health Office, Salaries and Labor	9,284.75
Health Office, Sundries	2,206.21
Health Yard, Labor	29,968.36
Health Yard, Sundries	6,950.99
Heating City Hall and Mem. Bldg., Labor	2,959.00
Heating City Hall and Memorial Buildings, Fuel	4,299.43
Heating City Hall and Memorial Buildings, Sundries	595.34
Inspector Milk and Vinegar, Salaries	2,202.00
Inspector Milk and Vinegar, Sundries	165.59
Inspector of Wires, Salaries	2,224.00
Inspector of Wires, Sundries	450.98
Incidentals	3,254.94
Insurance	2,366.90
Inspector of Animals and Provisions	500.00
Law, Salaries	4,824.00
Law, Sundries	1,246.44
Lighting, Labor and Sundries	1,064.45
Lighting, Public Buildings	31.77
Lighting, Streets	99,973.64
Liquor Licenses	43,524.75
Library	13,000.00
Mayor, Salaries	4,200.00
Mayor, Sundries	318.72
Parks, Salaries and Labor	8,999.92
Parks, Sundries	3,771.28
Parks, Care of Trees	999.97
Almshouse, Grain, Groceries and Prov.	30,957.33
Almshouse, Sundries	21,334.40
Almshouse, Salaries	2,700.00
Almshouse, Labor	13,281.38
Outdoor Relief, Salaries	3,785.00

ACCOUNT OF THE TREASURER—Continued

CR. By cash paid on account of—Continued

Outdoor Relief, General Sundries	44,761.15
Outdoor Relief, Office Sundries and Trans.	597.37
Police, Salaries and Labor	132,884.39
Police Board and Clerk	5,000.00
Police, Sundries	6,090.23
Parks, Moths	500.00
Athletic Apparatus on No. and So. Commons...	201.91
Public Buildings, Salaries	2,736.00
Public Buildings, Labor	12,676.71
Public Buildings, Janitor, Police Station	912.50
Public Buildings, Asst. Janitor Police Station ...	477.00
Public Buildings, Janitor Memorial Building ...	702.00
Public Buildings, Board of Horses	1,295.87
Public Buildings, Electric Power	366.39
Public Buildings, Work not done by Dept.	6,087.31
Public Buildings, Materials	4,746.37
Public Buildings, Repair of Steamer 3	1,924.00
Public Buildings, Painting City Hall	999.91
12 Double Windows in Female Hospital	240.00
16 New Windows in Male Dining Room	160.00
Sheathing Door from Barnyard	10.00
New Floor, Cow Stable	300.00
Refrigerator Repairs	250.00
Two New Doors	20.00
Electric Wiring	250.00
Screens for Hospitals	115.00
Gratings, Female Hospital	100.00
Rifle Range	699.16
Registrars, Sundries	1,375.25
Registrars, Salaries and Labor	4,149.00
Schools	309,258.84
School Houses	73,716.11
Sewers, Maintenance, Salaries	2,939.00
Sewers, Maintenance, Labor	12,346.62
Sewers, Maintenance, Sundries	10,880.78
State Aid, Salaries and Sundries	2,045.00
State Aid, Aid	15,628.50

ACCOUNT OF THE TREASURER—Continued

CR. By cash paid on account of—Continued	
Military Aid	3,170.00
Soldiers' Relief	9,988.64
Streets, Salaries	4,000.00
Streets, Labor	121,657.58
Streets, Yard Labor	10,829.84
Streets, Sundries	47,605.95
Streets, New Sidewalks	4,475.60
Streets, Sidewalks, Repairs	3,999.39
Supply, Salaries and Labor	5,429.00
Supply, Sundries	874.12
Watering Streets, Labor	4,999.11
Watering Streets, Sundries	11,091.63
Water Works	189,478.12
City Debt	284,221.90
Interest	130,544.35
Temporary Loans	1,300,000.00
Sinking Funds	32,300.00
County Tax	76,264.33
State Tax	97,604.73
National Bank Tax	12,911.93
Sewers, Construction	99,466.37
Fourth of July Observance	3,075.43
Middlesex Village School Bell	192.12
State Supervisors	424.00
Repairing Palmer Street Engine House	1,000.00
Ennell St. School	23,275.98
Macadamizing Stackpole Street	3,497.59
Macadamizing Durant Street	5,499.95
Macadamizing Willow Street	1,500.00
Execution of Court, G. W. Marshall	750.00
Memorial Day, G. A. R.	1,000.00
Memorial Day, S. W. V.	200.00
Claims for Damages and Injuries	750.00
Lowell Textile School	8,000.00
Police Underground Wires	82.00
Repairing Central Bridge	10,999.58
New Boiler, Butler School	1,199.97
New Boiler, Morrill School	800.00
New Boiler, Kirk Street School	500.00

TREASURER'S REPORT

ACCOUNT OF THE TREASURER—Continued

CR.	By cash paid on account of—Continued	
Municipal Band Concerts	680.00	
Claim of Vital Robert	25.00	
New Coving, Pawt. School	1,500.00	
Extension W. 10th Street	900.00	
Printing Municipal Registers	216.40	
Claim of Frances M. Talbot	50.00	
Purchase of Lang Land	2,200.00	
Purchase of Gormley Estate	5,200.00	
Edson Cemetery Annex	305.14	
Health, Small Pox	3,297.08	
State Highway Tax	115.15	
Execution of Court, M. V. Connors	687.25	
Execution of Court, Est. Edw. Quinn	3,111.29	
		3,738,502.84
Cash Balance Dec. 31, 1905		392,188.93
		<u>\$4,130,691.77</u>

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS FOR THE YEAR 1905

Lowell, Mass., Jan. 1, 1906.

To the Honorable the City Council of Lowell:

Gentlemen: The Commissioners of Sinking Funds of the City of Lowell have the honor to submit the following report of the several Sinking Funds of said City and of the Hapgood Wright Centennial Trust Fund for the year 1905.

Full value of all Sinking Funds Jan. 1, 1906....	703,793.46	
Full value of all Sinking Funds Jan. 1, 1905....	650,447.62	
Increase during the year 1905		53,345.84
Value of Water Loan Sinking Funds Jan. 1, 1906	437,885.13	
Value of Water Loan Sinking Funds Jan. 1, 1905	406,430.22	
Increase during the year 1905		31,454.91
Value of all other Sinking Funds Jan. 1, 1906..	265,908.33	
Value of all other Sinking Funds Jan. 1, 1905....	244,017.40	
Increase during the year 1905		21,890.93
Total increase as above		53,345.84

COMMISSIONERS OF SINKING FUND REPORT

Value of the Hapgood Wright Centennial Trust Fund	
Jan. 1, 1906	3,397.14
Value of the Hapgood Wright Centennial Trust Fund	
Jan. 1, 1905	3,268.93

Increase during the year 1905	128.21
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A statement of the receipts, payments and present value of the several Sinking Funds and a list of the securities in each fund follows:

Water Loan Sinking Fund

	SECURITIES	CASH	TOTAL
Received during 1905	341,000.00	5,205.43	346,205.43
Cash-Annual Appropriation	.	16,000.00	
Cash Income on Investments		14,890.00	
Cash Income on Bank Deposits		563.41	
Securities Matured		9,500.00	
Securities bought in 1905	40,000.00		
		46,158.84	
Paid for Securities in 1905		42,924.17	
On hand Jan. 1, 1906	371,500.00	3,234.67	374,734.67
			28,529.24

Securities belonging to this Fund:

4 City of Lewiston coupon bonds, 5 per cent....	4,000.00
9 Town of Sharon coupon bonds, 4 per cent.	9,000.00
12 Town of Athol coupon bonds, 4 per cent. ...	12,000.00
15 City of Portsmouth coupon bonds, 4 per cent.	15,000.00
14 City of Waterville coupon bonds, 4 per cent. .	14,000.00
14 City of Saginaw coupon bonds, 4 per cent. ...	14,000.00
2 City of Everett registered bonds, 4 per cent. ..	2,000.00
1 City of Boston registered bond, 4 per cent....	61,000.00
1 City of Lowell Note, 3 1-2 per cent.	7,500.00
15 Fitchburg R. R. coupon bonds, 4 per cent. ..	15,000.00
8 C. B. & Q. Neb. Ext. R. R. coupon bonds, 4 per cent.	8,000.00
4 Illinois Central R. R. coupon bonds, 4 per cent.	4,000.00
18 Portland & Ogdensburg R. R. coupon bonds, 5 per cent.	18,000.00
1 Boston & Maine R. R. registered bond, 4 1-2 per cent.	10,000.00

COMMISSIONERS OF SINKING FUND REPORT

Water Loan Sinking Fund—Continued

30 Northwestern Union R. R. coupon bonds, 7 per cent.	15,000.00	
9 New York, Lackawanna & Western R. R. coupon bonds, 6 per cent.	9,000.00	
48 Town of Northfield coupon bonds, 3 1-2 per cent.	24,000.00	
3 Boston & Maine R. R. coupon bonds, 4 per cent.	3,000.00	
50 Lowell & Suburban St. R. R. coupon bonds, 5 per cent.	50,000.00	
2 St. Johnsbury & Lake Champlain R. R. coupon bonds, 5 per cent.	2,000.00	
15 Lynn & Boston St. R. R. coupon bonds, 5 per cent.	15,000.00	
20 Illinois Central R. R. coupon bonds, 3 1-2 per cent.	20,000.00	
30 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.	30,000.00	
10 Boston Elevated R. R. coupon bonds, 4 per cent.	10,000.00	
		371,500.00
Cash on deposit in Appleton National Bank		3,234.67
		<u>374,734.67</u>

High Service Water Loan Sinking Fund

	SECURITIES	CASH	TOTAL
On hand Jan. 1, 1905	59,000.00	1,224.79	60,224.79
Received during 1905:			
Cash-Annual Appropriation		1,800.00	
Income on Investments		2,760.00	
Income on Bank Deposits		99.01	
Securities Matured		22,000.00	
Securities bought in 1905	25,000.00		
		<u>27,883.80</u>	
Paid for securities in 1905		26,733.34	
		<u>1,150.46</u>	
On hand Jan. 1, 1906	62,000.00		63,150.46
Increase during the year 1905			<u>2,925.67</u>

High Service Water Loan Sinking Fund—Continued

Securities belonging to this fund:

2 City of Beverly coupon bonds 4 per cent ..	2,000.00	
4 Town of Danvers coupon bonds 5 per cent.	4,000.00	
1 City of Portsmouth coupon bonds 4 per cent.	1,000.00	
4 City of Saginaw coupon bonds 4 per cent.	4,000.00	
4 C. B. & Q. Neb. Ext. R. R. coupon bonds 4 per cent.	4,000.00	
4 Portland & Odgensbury R. R. coupon bonds 5 per cent.	4,000.00	
7 Winona & St. Peter R. R. coupon bonds 7 per cent.	7,000.00	
2 New York, Lack. & Western R.R. Coupon bonds 6 per cent.	2,000.00	
1 Boston & Maine R. R. coupon bond 4 per cent.	1,000.00	
1 Winona & St. Peter R. R. coupon bond 7 per cent.	1,000.00	
2 Lowell & Suburban St. R. R. coupon bonds 5 per cent.	2,000.00	
5 N. Y., N. H. & H. R. R. coupon bonds 4 per cent.	5,000.00	
10 Boston Elevated coupon bonds 4 per cent.	10,000.00	
15 N. Y., N. H. & H. R. R. coupon bonds 4 per cent.	15,000.00	
		62,000.00
Cash on deposit in Appleton National Bank		1,150.46
		63,150.46

City Hall and Memorial Building Sinking Fund

	SECURITIES	CASH	TOTAL
On hand Jan 1, 1905.....	157,500.00	1,546.97	159,046.97
Received during 1905.			
Cash—Annual Appropriation		7,500.00	
Income on Investments		6,917.50	
Income on Bank Deposits		180.02	

City Hall and Memorial Building Sinking Fund—Continued

	SECURITIES	CASH	TOTAL
Securities Matured in 1905		2,500.00	
Securities Bought in 1905	15,000.00		
		18,644.49	
Paid for Securities in 1905		16,781.16	
On hand Jan. 1, 1906	170,000.00	1,863.33	171,863.33
Increase during the year 1905.....			12,816.36

Securities belonging to this Fund:

2 Town of Bradford coupon bonds 4 per cent. ..	2,000.00
5 City of Brockton coupon bonds 4 per cent. ..	5,000.00
1 Town of Reading coupon bonds 4 per cent. ...	1,000.00
6 Town of Wrentham coupon bonds 4 per cent. ..	6,000.00
9 Town of Arlington coupon bonds 4 per cent. ..	9,000.00
8 Town of Stoughton coupon bonds 4 per cent..	8,000.00
7 City of Saginaw coupon bonds 4 per cent.	7,000.00
6 Fitchburg R. R. coupon bonds 4 per cent.	6,000.00
1 City of Boston Registered Bond 4 per cent. ..	21,000.00
1 City of Brockton Registered Bond 4 per cent..	1,000.00
10 C. B. & Q. Neb. Ext. R. R. coupon bonds 4 per cent.	10,000.00
19 Illinois Central R. R. coupon bonds 4 per cent.	19,000.00
2 Milwaukee & Lake Shore R. R. coupon bonds 5 per cent.	2,000.00
7 N. Y. Lack. & Western R. R. coupon bonds 6 per cent.	7,000.00
7 City of Indianapolis coupon bonds 4 per cent.	7,000.00
1 City of Brockton Registered bond 4 per cent.	1,000.00
8 Town of Northfield coupon bonds 3 1-2 per cent.	4,000.00
11 Winona & St. Peter R. R. coupon bonds 7 per cent.	11,000.00
6 City of Malden coupon bonds 4 per cent.	6,000.00
10 Lynn & Boston St. R. R. coupon bonds 5 per cent.	10,000.00
5 N. Y., N. H. & H. R. R. coupon bonds 4 per cent.	5,000.00

City Hall and Memorial Building Sinking Fund—Continued

Securities belonging to this Fund—Continued

5 Illinois Central R. R. coupon bonds 3 1-2 per cent.	5,000.00	
7 City of Portsmouth coupon bonds 4 per cent.	7,000.00	
10 City of Augusta Water District coupon bonds 3 1-2 per cent.	10,000.00	
		170,000.00
Cash on deposit in Appleton National Bank ...		1,863.33
		<u>171,863.33</u>

Lowell High School Sinking Fund

	SECURITIES	CASH	TOTAL
On hand Jan. 1, 1905	50,500.00	1,121.37	51,621.37
Received during 1905:			
Cash—Annual Appropriation		3,000.00	
Income on Investments		1,785.00	
Income on Bank Deposits		180.88	
Securities Matured		13,000.00	
Securities bought in 1905	15,000.00		
		19,087.25	
Paid for Securities in 1905		16,187.51	
On hand Jan. 1, 1906	52,500.00	2,899.74	55,399.74
Increase during 1905			3,778.37

Securities belonging to this Fund:

1 City of Keene coupon bond, 4 per cent.	500.00
7 City of Portsmouth coupon bonds, 4 per cent. . .	7,000.00
5 City of Indianapolis coupon bonds, 4 per cent. .	5,000.00
4 Fitchburg R. R. coupon bonds, 4 per cent.	4,000.00
5 C. B. & Q. Neb. Ext. R. R. coupon bonds 4 per cent.	5,000.00
7 Illinois Central R. R. coupon bonds, 4 per cent.	7,000.00

Lowell High School Sinking Fund—Continued

Securities belonging to this fund—Continued		
2 City of Saginaw coupon bonds, 4 per cent....	2,000.00	
1 Boston & Maine R. R. coupon bond, 4 per cent.	1,000.00	
5 N. Y., N. H. & H. R. R. coupon bonds, 4 cent.	5,000.00	
1 New York, Lack. & Western R. R. coupon bond, 6 per cent.	1,000.00	
15 N. Y., N. H. & H. R. R. coupon bond, 4 per cent	15,000.00	
		52,500.00
Cash on deposit in Appleton National Bank ...		2,899.74
		<u>55,399.74</u>

New School Houses Sinking Fund

	SECURITIES	CASH	TOTAL
On hand Jan. 1, 1905	33,000.00	349.06	33,349.06
Received during 1905:			
Cash-Annual Appropriation		4,000.00	
Income on Investments		1,400.00	
Income on Bank Deposits		42.03	
Securities matured in 1905		5,000.00	
Securities bought in 1905	10,000.00		
		<u>10,791.09</u>	
Paid for securities in 1905		10,145.83	
		<u>645.26</u>	
On hand Jan. 1, 1906	38,000.00		38,645.26
Increase during 1905			<u>5,296.20</u>
Securities belonging to this Fund:			
8 City of Indianapolis coupon bonds, 4 per cent..		8,000.00	
3 C. B. & Q. Neb. Ext. R. R. coupon bonds, 4 per cent.		3,000.00	
5 Illinois Central R. R. coupon bonds, 4 per cent.		5,000.00	

New School Houses Sinking Fund—Continued

Securities belonging to this fund—Continued

2	Winona & St. Peter R. R. coupon bonds, 7 per cent.	2,000.00	
1	New York, Lack. & Western R. R. coupon bond, 6 per cent.	1,000.00	
4	Boston & Maine R. R. coupon bonds, 4 per cent.	4,000.00	
5	N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.	5,000.00	
1	City of Minneapolis coupon bond, 3 1-2 per cent.	10,000.00	
			38,000.00
Cash on deposit in Appleton National Bank			645.26
			<u>38,645.26</u>

Hapgood Wright Centennial Fund

	CASH	TOTAL
On hand Jan. 1, 1905	3,268.93	3,268.93
Received during 1905:		
Cash—Interest on Bank Deposits	128.21	3,397.14
On hand Jan. 1, 1906		3,397.14
Increase during 1905		128.21

Securities belonging to this Fund:

Cash deposited in Lowell Institution for Savings.	687.06	
Cash deposited in City Institution for Savings ..	2,710.08	3,397.14

Respectfully submitted,

AUSTIN K. CHADWICK.

FRED A. BUTTRICK.

CHARLES L. KNAPP.

Commissioners of Sinking Funds for the City of Lowell for the year 1905.

STATEMENT OF THE CITY TREASURER RELATING TO SPECIAL FUNDS FOR THE CARE OF PUBLIC BURIAL GROUNDS

Lowell, Mass, Jan. 1, 1906.

To the Honorable, the City Council of the City of Lowell:

Gentlemen: I have the honor to submit the following statement of special funds in my hands, desposited for perpetual care of lots in the Public Burial Grounds of the City of Lowell:

On hand Jan. 1, 1905 39,275.00

Received during the year:

From

Annie D. Rivet	100.00
Amos F. Hill	100.00
Mary Ashworth	100.00
C. A. Wotton	200.00
Herbert A. Merrill	100.00
Catherine Smith	100.00
Emma G. Mooney	100.00
Alonzo J. Guild	100.00
Henry Creese	100.00
A. G. Thompson, Trustee	100.00
Phebe R. Hubbard	100.00
Frank H. Stratton	100.00
Robert Thompson	100.00
Mary E. Offutt	100.00
Frank E. Sanderson	100.00
Alexander T. Robinson	100.00
George F. Robinson	100.00
Hiram Leet	100.00
John M. Webster, Administrator	100.00
Esther J. Pettigrew	100.00
Maria A. Burnham	100.00
Mary A. Robertson	100.00
Wm. J. Irving	100.00
H. Gussie Rouse	100.00
Ralph Haynes, Executor	100.00

STATEMENT OF THE TREASURER—Continued

Received During the Year—Continued

Celia M. Whipple	150.00
Amber E. Judkins	100.00
Mary E., Flora and Sadie R. Parker	100.00
Mary W. Kennedy	100.00
Nettie E. Burton	100.00
Mrs. C. F. Atkinson and B. A. Falls	100.00
Marietta Hill	100.00
Charles M. Williams, Executor	100.00
Miss E. A. Traintor	100.00
A. F. Swanton, Administrator	100.00
Dana H. Spiller	100.00
Jacob S. Cooledge	100.00
John Smith	200.00
John Follis	100.00
Florence A. Otley	100.00
Lucy H. Mills	100.00
Lizzie F. Hibbert	100.00
Lizzie F. Hibbert	100.00
Esther B. Simpson, L. J. Hanson & A. E. Grouse	150.00
Hannah Bowers	100.00
John Norris	100.00
Ella Bowles	100.00
Mrs. C. E. Ryder	100.00
Fannie A. Washburn	100.00
Addie E. Prouty	100.00
Almon R. Pendexter	100.00
James Dawson	100.00
Wm. H. P. Smith	100.00
Daniel A. Eaton	100.00
Daniel A. Eaton	100.00
J. H. Carmichael	100.00
J. W. Tuttle	100.00
Mrs. Louisa Haslam	100.00
Elizabeth Andrews	100.00
Mrs. John B. Shaw	100.00
Robert Thompson	100.00
Enoch Young	100.00

 45,775.00

TREASURER'S REPORT

STATEMENT OF THE TREASURER—Continued

The following amount is invested as follows :

Washington Savings Institution	5,750.00	
City Institution for Savings	6,200.00	
Savings Dept. Traders National Bank	5,300.00	
Merrimack River Savings Bank	5,300.00	
Mechanics Savings Bank	5,900.00	
Lowell Institution for Savings	5,200.00	
Central Savings Bank	6,300.00	
Lowell Five Cent Svanigs Bank	5,825.00	
		45,775.00

Respectfully submitted,

ANDREW G. STILES,

City Treasurer and Collector of Taxes.

ACCOUNTANT'S REPORT

LOWELL, MASS., March 31st, 1906

BURTON H. CROSBY, Chairman,

COMMITTEE ON ACCOUNTS,

Lowell, Mass.

MY DEAR SIR:—

Having completed my examination of the books and accounts of the City Treasurer, and of the several other departments for the year 1905, I have the honor to submit the following report:

Cash in treasurer's office at close of business Feb. 2nd, 1906, verified by actual count	\$ 16,470 72
Money on deposit in banks, as certified by the accompanying letters :	
Lowell Trust Company	\$246,683 82
Less checks outstanding.....	6,930 77
	239,753 05
Union National Bank	114,518 38
Prescott National Bank.....	8,344 18
Appleton National Bank.....	3,301 88
Total	\$382,388 21
Cash balance at close of business Feb. 2, 1906	382,388 21

The debit entries were checked from the books of original entry, as far as possible. I examined the credit entries and the coupon payments for the year and found them correct. The unclaimed cash and the checks on hand were verified.

The taxes and water rates were verified by a Trial Balance in each case, and were found sufficiently close to vouch for their correctness.

I made an examination of the City Cemetery accounts and found them to be correct ; also an examination of the accounts of the Treasurer of the City Library Funds, which I found to be correct.

I have made an examination of the accounts of the Departments that receive money in behalf of the City Treasurer, and find them to be correct.

The City Treasurer's statement relating to funds for care of lots in public burying grounds was verified.

I have examined the accounts of the several Sinking Funds, and find them to be correct.

Respectfully submitted,

MILES G. GARDNER,

Accountant

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THIRTY-THIRD
ANNUAL REPORT
OF THE
LOWELL WATER BOARD
TO THE
City Council of the City of Lowell, Mass.
AND THE
Reports of the Superintendent of Water Works
and of the City Engineer to the
Water Board for 1905.



LOWELL, MASS.:
LAWLER PRINTING COMPANY
1906.

WATER DEPARTMENT, 1905

WATER BOARD

ROBERT J. CROWLEY, President

Term expires second Monday in March, 1907.

AUGUST FELS, died July 2d, 1905.

Z. W. STURTEVANT, for unexpired term,

Term expires second Monday in March, 1906.

FRANK L. WEAVER,

Term expires second Monday in March, 1908.

ISAAC E. WOTTON,

Term expires second Monday in March, 1909.

JOHN W. CRAWFORD, Secretary and Clerk.

ROBERT J. THOMAS, Superintendent.

GEORGE BOWERS, City Engineer.

D. B. H. BARTLETT, Engineer.

THOMAS McLAUGHLIN, Engineer.

JOHN B. HENRY, Keeper Reservoir.

THOMAS F. DOYLE, Foreman.

WILLIAM JOYCE, Assistant Foreman.

DANIEL CORCORAN, Meter Inspector.

ALBERT HALLOWELL, Foreman Shop.

A. F. COGER, Hydrants and Gates.

EDWARD WALSH, Services.

OFFICE

GEORGE E. WORTHEN, Service Clerk. GERTRUDE W. BYAM, Bookkeeper.

JULIA J. RAFTER, Assistant Bookkeeper.

ALICE T. MCCARTHY, Assistant Bookkeeper.

INSPECTORS

ROBERT GARDNER.

EDWARD J. BOYLE.

JOHN E. LOWNEY.

GEORGE F. TILTON.

WALTER P. WILEY.

CITY OF LOWELL

IN BOARD OF ALDERMEN,
March 27, 1906.

Ordered on file. Sent down for concurrence.

GIRARD P. DADMAN,
City Clerk.

IN COMMON COUNCIL,
April 3d, 1906.

Received and ordered on file, in concurrence.

FRANK M. DOWLING,
Clerk.



AUGUST FELS

Report of the Water Board.

OFFICE OF THE WATER BOARD,
CITY HALL.

Lowell, Mass, January 1, 1906.

To His Honor the Mayor and the City Council of the
City of Lowell:

Herewith is submitted the thirty-third annual report of the Water Board for the year ending December 31, 1905, together with the reports of the Superintendent of Water Works and of the City Engineer to the Water Board for the same period.

The operations of the department have been satisfactorily conducted and the amount of work performed normal; the increase of the plant is indicated by the extensions of main pipe and new services from year to year.

The receipts for the year were \$202,434.62, an increase of \$5,378.99 over 1904; the expenditures were \$189,478.12, an increase of \$8,179.94. The balance January 1, 1906, was \$31,791.82, an increase of \$12,956.50; water charges increased \$7,776.57, other than water charges amounted to \$16,214.49, an increase of \$3,130.52. These latter charges should be considered as representing the expense to the department for meters, services, labor, material, etc., which is re-charged to

the persons for whose benefit it is furnished. The debt of the department was decreased \$16,600.00 by payment on notes; no notes matured and none will until 1907, and the final payment on driven well loans will be in 1910.

Early in the year, it was brought to the notice of the Board that unauthorized persons were using water from fire hydrants in violation of the City Ordinances, which are very explicit in regard to the use of hydrants, as when used they are liable to be broken or left in a leaky condition, so that they become frozen and unfit for use in case of fire, and much property is liable to be destroyed for lack of ability to get the hydrant into prompt use. The Chief of Fire Department and Superintendent of Police were advised of this evil and asked to co-operate in suppressing it. A committee consisting of Messrs. Weaver and Fels was appointed to consult with Mayor Casey in relation to having certain designated places flooded with water from the city pipes for skating surfaces, for which His Honor would order the water turned on whenever, in his judgment, he deemed it expedient to do so.

At the annual meeting in March, Mr. Isaac E. Wotton took his seat as a member of the Board in place of Mr. M. J. Dowd, whose term expired, having served as a member of the Water Board two full terms, or since March, 1897. The year 1905 is notable from the fact that while in the past changes in the personnel of the Board were infrequent, in this year two new names appear, for on July 2d occurred the death of Mr. August Fels, a member of the Water Board since 1894, and who, had he lived until March, 1906, would have served three full terms or twelve years on the Water Board of this city. Conservative and judicious, with an unusual facility of discernment, his clear-sightedness and prompt judgment are greatly missed in the deliberations of this Board. The following resolutions were prepared and adopted by the Board and spread upon the records:

“The Lowell Water Board, aside from their desire to acknowledge how keenly they feel the personal loss of their late

fellow member, August Fels, also deem it a matter of duty to have inscribed on the records of the Board a testimonial from them of his worth as a faithful public servant.

"To him was vouchsafed the honor of having served the City in the capacity of a member of the Water Board a longer time than any other citizen. He became a member of the Board in March, 1894, continuing from that date until the time of his lamentable death, July 2, 1905. During his long period of service, many important improvements had been made in the Water Works system, the most notable of which was the substitution of driven well water for Merrimack River water. The great and lasting benefit which was brought about by this change in the source of our water supply needs no comment excepting that Mr. Fels and his colleagues, through whose wise judgment and ability this work was accomplished, deserve the gratitude of the people of Lowell. To the consideration of this problem, Mr. Fels gave his valuable time freely and unremittingly. In fact, no member of the Board was more energetic than he in what was practically a reconstruction of the Water Works plant. The routine work of the department also received his careful attention. He rarely missed a meeting of the Board or of any sub-committee of which he was a member. His knowledge of the department in all its branches was thorough and complete. Every employee of the department knew, admired and respected him. The water takers had confidence in his integrity and ability.

"A feature of the Water Works property in which he was specially interested was the system of Parks established over the conduit and tunnel in Pawtucketville, and the Board believes that one of the Parks should be named in his honor, and they so voted that the lot of land situated on the corner of Sarah Avenue and Riverside Street be hereafter known as Fels Park."

Mr. Z. W. Sturtevant was elected to the vacancy, and took his seat August 4th.

The Board organized in March by the re-election of Rob-

ert J. Crowley as President, and Robert J. Thomas Superintendent, and later J. W. Crawford as Secretary.

In April, the Chief of Supply Department contracted for 3,000 tons of C. C. B. Pocahontas coal for this department at \$5.15 per gross ton, a considerable advance over the previous year's price.

During the last session of the Legislature, an Act was passed authorizing the City of Lowell to supply water to the inhabitants of a certain part of the Town of Tewksbury, principally for the purpose of giving to the Arlington Mills the benefit of city water at the plant of the old Atherton Machine Company, and the following order was adopted by the City Council on July 18: "That the Water Board of the City of Lowell be and is hereby directed to furnish water to that portion of the Town of Tewksbury known as the Arlington Mills property, on condition that the pipes from city line to said property be laid at the expense, in whole or in part, of the owner of the property." On October 2d, a public hearing was granted by the Board, which was attended by many prominent citizens who advocated extending the city water service to this plant, and there were no remonstrants. Owing to lack of pipe, the work was not completed until the middle of December, but up to a month later no request to have the water turned on had been received. This extension is 1879 feet in length and cost \$1,972.23. Mr. Edward Cawley, owner of the property, has signed an agreement to pay interest on the cost. This was deemed the wisest course, rather than to require him to pay the whole or a part of the cost, as the Water Board desires to retain absolute control of all pipes connected with its system.

October 5th, requisition was made for one hundred tons of six-inch pipe for the Tewksbury extension and others, the most important of which was the Shaw Machine Company on Middlesex Street, nearly 2,000 feet, all of which is paid for by that Company. This pipe cost \$28.70 per net ton.

It was stated in last year's report that "It will soon become necessary to install new pumping machinery at the Centralville Station," and it was the hope of the members of this Board that by economy of operation and the saving from maturing of loans that this pump could be paid for from the earnings of the department instead of by a loan for that purpose.

Early in the year, consideration of the pump question was taken up with manufacturers of pumping machinery relative to types and cost of installing a suitable pump at the Centralville Station. Representatives of different makes came to look at the conditions and all agreed that a new pump at the Boulevard Station was most needed and would be a great saving in use of fuel. Accordingly, on August 23d, it was voted to call for bids "for the construction, delivery and erection, complete and ready for use, of a vertical triple expansion or vertical compound crank and fly-wheel pumping engine of eight million gallons capacity," the bids to be received until 4 o'clock P. M., September 7th; afterwards, the time of opening was deferred to September 8th at 8 o'clock P. M. Bids were received as follows:

R. D. Wood & Co., vertical triple exp., direct acting.	\$12,125.00
" " " compound crank and fly-wheel.	7,900.00

These types of engines not being in conformity with the requirements, these bids were not considered.

Holly Mfg. Co., vert. triple exp. crank and fly-wheel	\$19,700.00
" " " vert. compound crank and fly-wheel	16,300.00
Wm. Todd Co., vert. compound crank and fly-wheel	18,000.00
" " " vert. triple exp. crank and fly-wheel	24,000.00
Allis Chalmers Co., vert. triple expansion.....	23,700.00

And on September 18th, the contract was awarded to the Holly Mfg. Company for a triple expansion crank and fly-wheel pumping engine for the sum of \$19,700.00. The contracts were prepared and after being signed by the parties in interest, were sent to the Mayor for his approval, as required.

by City Ordinances, on October 12th, and not until November 3d was the contract returned to the Water Board, together with a communication from His Honor, in which he respectfully declined to approve the same, on the ground "that I fail to find any necessity existing for the immediate purchase of a steam pumping engine for the Boulevard Station."

Let us look at the reasons for a new pumping engine at the Boulevard. When the Driven Well system was first started, there was doubt in some minds as to the permanency of this method of getting water, and it was deemed wise to put in a temporary pumping plant, to be replaced if the wells proved permanent in character, so all the Driven Well plants have been classed as "temporary." This plant has been in constant use for ten years and the supply of water can be classed as "permanent," and it seems time it should be put in condition for the most economical operation. In the consideration of this pump question, it developed that the average amount of coal used per year at the Boulevard for the last three years was 2,388 tons and at Centralville 1,677 tons; the amount of water pumped at each station is the same, but at Centralville the water has to be raised 160 feet to the reservoir, while at the Boulevard it is drawn from the wells and runs by gravity to the Centralville Station. The contract price of the proposed new pump for the Boulevard is \$19,700.00, guaranteed to perform the work for one-third of the coal consumption of the present pumps; a pump of the same type for the Centralville Station would cost about double the one at the Boulevard and use one-half as much coal as the present pumps. The result is that the Boulevard pump, costing \$19,700.00 will save at price paid for coal in 1905, over \$8,000.00 per year, while a pump costing \$38,000.00 to \$40,000.00 for Centralville will save between \$4,000.00 and \$4,500.00 yearly. When this condition of things came to our attention, we had no hesitation in adopting the former proposition, although no previous notice or warning of this change

had been given in the reports of this Board. The refusal to sign this contract was a great surprise, as the Board had received no word from His Honor looking to information in regard to the necessity for this improvement, and believing that it was something other than a just regard for the best interests of the City in the economical working of one of its departments, the Board voted to authorize the President to engage counsel and begin proceedings for a writ of mandamus against the Mayor, to show cause why he should not approve this contract.

The following rates for water outside the city have been adopted: Twenty cents per thousand cubic feet with a minimum of \$12.00 per year, and all services must be metered.

In April died Frederick A. Baron, an inspector in this department since March, 1889; the vacancy thus caused was filled by the election of Edward J. Boyle from the civil service list.

On December 28th, a consultation was held in relation to making a requisition for three hundred tons of pipe, estimated as the needs of the Department the coming year. His Honor demurred at purchasing so much pipe at one time, but gave his assent to a requisition for one hundred and fifty tons, for delivery by April 1, 1906.

In conclusion, the Board desires to reiterate their belief in the expediency of installing a new pump at the Boulevard for the most economical working of the department; that a new pump at the Centralville Station will soon be a necessity; and as funds become available by the maturing of Driven Well loans, a new brick station at the Boulevard should be provided. These improvements, coming as the necessary sequel to the change in mode of supply, can be paid for by the earnings of the department, the same as the Well system has been. The metered water rates of the City of Lowell are reasonable and as low as any place that has to pump its water, and there is no demand from the consumers for a reduction.

It is our pleasure to express our appreciation of the faithful and intelligent work of Superintendent Thomas, and to all other employees of the department in their efforts in forwarding the interests of the Lowell Water Works.

ROBERT J. CROWLEY,
FRANK L. WEAVER,
ISAAC E. WOTTON,
Z. W. STURTEVANT.

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1905.

TABLE I.		CHARGES.				RECEIPTS BY ACCOUNTS.				
		WATER			Other than Water	Total 1905.	Receipts	Discount.	Abatement	Due
		Rate	Metered.	Total.						
Transfer						\$ 9,530 60	\$ 7,459 55	\$ 2 69	\$ 368 58	\$ 1,699 78
Jan	\$ 148 70	\$33,100 61	\$ 33,249 31		\$ 1,117 56	34,366 87	29,506 75	2,624 26	20 28	134 35
March.....					1,770 61	1,770 61	1,589 77		4 35	176 49
April		40,474 77	40,474 77			40,474 77	36,758 92	3,644 79	18 00	53 06
May.....	37,804 29	37,804 29	37,804 29		1,858 75	39,658 04	35,198 75	3,067 72	622 95	768 62
June.....					1,620 32	1,620 32	1,281 42			338 90
July	1,297 59	60,995 87	60,995 87				55,260 81	5,406 26	178 74	150 06
Aug.....					1,974 35	1,974 35	1,636 39			337 96
Sept.....					3,028 62	3,028 62	1,859 70		19 29	1,149 63
Oct.....	448 99	37,527 79	37,527 79			37,527 79	29,890 12	3,091 12	74 25	4,472 30
Nov.....					3,222 90	3,222 90	562 44			2,660 46
Dec.....					1,626 38	1,626 38	91 34			1,535 04
Jan '06..	2 85	1,363 56	1,366 41			1,366 41	1,366 41	154 73		
	\$39,702 42	\$71,718 02	\$211,418 44	\$16,214 49	\$237,163 53	\$202,462 37	\$17,991 57		\$1,306 44	\$13,476 65

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1905.—OUTGO

TABLE II.	Pay Roll and Salaries	Water Works Supplies	Interest and Principal	Refund and Vacancies	General Expense	Stable Dept.	Fuel	Total 1905	Total 1904
January	\$ 4,846 53	\$ 964 86	\$ 2,620 00	\$ 11 00	\$ 694 89	\$ 178 44	\$ 363 64	\$ 9,679 36	\$ 8,407 69
February	4,920 62	1,866 95	1,500 00	9 72	359 42	29 70	1,503 10	10,189 51	7 573 98
March	5,042 42	1,059 55	.....	6 30	201 93	52 69	892 11	7,255 00	7,140 82
April	7,279 15	2,504 68	40 00	20 70	383 36	60 82	780 21	11,068 92	10,002 62
May	6,282 82	2,452 19	18,246 00	67 99	263 53	14 74	1,433 36	28,760 63	29,702 98
June	5,951 38	1,303 18	1,500 00	515 30	120 19	22 07	4,441 16	13,853 28	9,090 65
July	7,469 88	2,015 19	14,420 00	128 64	903 86	275 85	2,406 99	27,620 41	32,688 08
August	6,051 29	2,069 02	1,470 00	100 31	99 58	35 70	.....	9,825 90	16,375 22
September	7,565 43	1,713 80	.....	6 14	300 75	47 99	2,292 90	11,927 01	7,834 92
October	6,334 79	865 28	200 00	32 54	165 04	194 32	4,915 48	12,707 45	17,542 20
November	6,080 80	1,664 73	20,796 00	76 08	210 64	38 17	.....	28,866 42	27,832 87
December	7,451 25	5,474 80	4,560 00	78 85	90 40	68 93	.....	17,724 23	7,106 21
Total	\$75,276 36	\$23,954 23	\$65,352 00	\$1,053 57	\$3,793 59	\$1,019 42	\$19,028 95	\$189,478 12	\$181,298 24

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1905.

SUBDIVISION OF "OTHER THAN WATER CHARGES" FROM TABLE I.

TABLE III.	Meters Sold	Expense Setting Meters	Repairs to Meters	New Services	Changed Services	Labor and Material	Shut Off Fees	Interest	Total 1905	Total 1904
January	\$ 238 75	\$ 31 89	\$341 59	.....	.....	\$499 33	\$6 00	.....	\$1,117 56	.....
March	704 00	105 15	240 42	\$188 40	\$ 38 71	487 93	6 00	.....	1,770 61	\$1,494 86
May	998 00	87 87	92 88	209 78	46 65	414 57	4 00	.....	1,853 75	1,380 48
June	778 00	125 92	185 89	214 78	119 32	188 41	8 00	.....	1,620 32	1,749 44
August	890 11	108 10	52 64	471 09	74 91	371 50	6 00	.....	1,974 35	3,240 41
September	1,704 68	132 95	129 34	291 89	159 82	361 54	2 00	\$246 40	3,028 62	1,561 62
November	390 50	57 21	34 77	256 28	79 33	2,398 81	6 00	.....	3,222 90	2,855 88
December	594 25	28 35	109 41	462 80	42 45	389 12	.....	.....	1,626 38	801 28
Total	\$6,298 29	\$677 44	\$1,186 94	\$2,095 02	\$561 19	\$5,111 21	\$38 00	\$246 40	\$16,214 49	\$13,083 97

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1905. SUBDIVISION OF PAYROLLS AND SALARIES FROM TABLE II.

TABLE IV.	Salaries	Meter Work	Office and Inspectors	Extension and Construc ⁿ	Services	Pawtucket- ville Pumping Station	Cook Plant Pumping Station	Bottleard Pumping Station	Recharged	General Maintenance	Engineering	Total 1905	Total 1904
January...	\$ 283 32	\$ 264 59	\$ 743 04	\$ 174 56	.....	\$ 789 25	\$ 56 60	\$ 557 54	.....	\$ 1,692 65	\$ 285 58	\$ 4,846 53	\$ 5,372 52
February.	283 36	293 78	743 04	115 06	.....	765 03	285 88	537 04	.....	1,778 10	119 33	4,920 62	4,590 24
March....	283 32	324 50	743 04	115 06	.....	746 25	108 44	535 04	...	2,061 77	125 00	5,042 42	4,845 09
April.....	283 32	326 25	962 34	505 35	\$ 203 19	878 03	70 00	803 20	\$ 12 13	3,135 34	100 00	7,279 15	6,680 04
May.....	283 32	269 81	723 84	342 52	268 85	667 47	56 00	562 86	36 98	2,971 17	100 00	6,282 82	5,851 26
June.....	283 36	308 72	723 84	494 81	242 83	759 47	82 00	497 79	.....	2,433 56	125 00	5,951 38	5,574 09
July	258 79	325 44	904 80	1,047 72	291 58	1,007 90	70 00	618 05	.....	2,845 90	100 00	7,469 88	7,201 51
August...	283 36	256 50	723 84	428 44	264 54	649 72	305 78	563 04	.....	2,451 07	125 00	6,051 29	6,132 72
September	283 36	370 68	917 14	156 09	301 75	818 91	228 31	821 05	24 09	3,544 05	100 00	7,565 43	6,165 95
October...	283 36	236 81	735 36	132 56	167 98	688 38	338 59	653 04	.....	2,998 71	100 00	6,334 79	6,913 55
November.	283 36	226 25	735 36	358 66	248 54	760 20	84 00	648 54	552 95	2,057 94	125 00	6,080 80	5,699 29
December.	283 24	315 31	939 52	1,429 48	236 56	914 01	72 00	774 53	96 32	2,390 28	.....	7,451 25	5,891 06
Total...	\$3,375 47	\$3,518 34	\$9,595 16	\$5,300 31	\$2,225 82	\$9,444 62	\$1,757 00	\$7,571 72	\$722 47	\$30,360 54	\$1,404 91	\$75,276 36	\$70,917 32

TABLE V.

FINANCIAL STATEMENT — LOWELL WATER
WORKS, 1905.

SUBDIVISION "WATER WORKS SUPPLIES," FROM TABLE II.

Supplies, Centralville Station.....	\$3,878 03
Supplies, Cook Plant Station.....	187 41
Supplies, Boulevard Station.....	446 88
Cast iron pipe and specials.....	2,467 13
Hydrants and gates and gate boxes.....	1,732 60
Service pipe and boxes.....	3,392 93
Meters....	7,377 48
Machinery and Tools.....	778 45
New office building.....	591 02
Brass foundry.....	80 79
Miscellaneous	3,021 51
	\$23,954 23

TABLE VI.

FINANCIAL STATEMENT—LOWELL WATER WORKS
1905.

DETAIL OF "PRINCIPAL AND INTEREST" FROM TABLE II.

	Amount of Debt Jan. 1, 1905.	Rate	Interest Paid 1905	Paid on Notes 1905	Amount of Debt Jan. 1, 1905.
Water loan bonds...	\$1,000,000 00	4	.....	.....	\$1,000,000 00
5 Coupons, No. 25, May, '03.....	.....	.....	\$ 100 00	.....	.....
6 Coupons, No. 27, May, '04.....	.....	.....	120 00	.....	.....
126 Coupons, No. 28, Nov. '04.....	.....	.....	2,520 00	.....	.....
999 Coupons, No. 29, May, '05.....	.....	.....	19,980 00	.....	.....
967 Coupons, No. 30, Nov. '05.....	.....	.....	19,340 00	.....	.....
High Service bonds..	75,000 00	4	.....	.....	75,000 00
2 Coupons, No. 46, Nov. '04.....	.....	.....	200 00	.....	.....
15 Coupons, No. 47, May, '05.....	.....	.....	1,500 00	.....	.....
15 Coupons, No. 48, Nov. '05.....	.....	.....	1,500 00	.....	.....
NOTES.	12,300 00	4	492 00	\$4,100 00	8,200 00
	30,000 00	4	1,200 00	5,000 00	25,000 00
	45,000 00	4	1,800 00	7,500 00	37,500 00
	\$1,162,300 00		\$48,752 00	\$16,600 00	\$1,145,700 00

TABLE VII.

FINANCIAL STATEMENT—LOWELL WATER
WORKS, 1905.

MAINTENANCE AND CONSTRUCTION ACCOUNT.

MAINTENANCE.

Paid for labor:

Salary of Superintendent.....	\$ 1,800 00
Salary of Water Board.....	1,575 47
Office and Inspectors.....	9,595 16
Pumping Stations.....	18,773 34
Meter Work.....	3,518 34
Engineering.....	1,404 91
General Maintenance	30,720 55

Paid for material:

Output as per stock book.	2,713 21
General expense.....	3,793 59
Stable.....	1,019 42
Pumping stations.....	4,512 32
Fuel.....	19,028 95
Interest.....	48,752 00

 \$147,207 26

CONSTRUCTION.

Paid for labor.....	\$ 7,166 12
Output as per stock book.....	7,046 96
New office building.....	591 02
Payment on loans.....	16,600 00
	\$31,404 10

Superintendent's Report.

Lowell, Mass., January 1, 1906.

To the Lowell Water Board:

Gentlemen: Following the requirements of the City Ordinances, I have the honor of hereby presenting to your Honorable Board the Superintendent's Annual Report of the work of construction, operation and maintenance of the Department for the year ending December 31, 1905, and the general condition of the lands, buildings, reservoirs, mains, machinery, etc., belonging thereto.

CONSTRUCTION.

During the year, the distributing mains of the City were extended 8,520.5 feet, making a total of 135.29 miles laid to date. Of the amount laid the last year, 1879 feet were laid along Rogers Street and Phoenix Avenue in Tewksbury to that part of the Town known as Atherton. Twenty-eight stop gates were set on street mains; seven public fire hydrants and ten private fire hydrants were installed; connections were made and six private fire services and one hundred and sixty-six house services were laid. The total number of meters in use was increased to 7,889, making 381 added the past year. This comprises in a general way the construction or new work

of the Department for the year, further details of which are contained in the schedules and tables accompanying and forming a part of this report.

At the beginning of the year, it was thought, owing to the amount of street mains already laid, that but little work of that kind would be called for; over 800 feet more, however, were laid in 1905 than in 1904. So while we know now of no special cause for anticipating many requests for new street mains the coming year, judging by past experience, probably the usual demand for extensions will have to be met. The increase in expenditures for extensions and services the past year is due partly to the larger amount of work done in that line, and also to the higher price paid for cast-iron pipe purchased for that purpose during the fall. Added expense was also incurred for transportation of pipe borrowed from the Boston and Lawrence Water Departments, in order to expedite work which would otherwise be delayed waiting for delivery from the pipe manufacturers.

Besides the six new private fire services and the ten hydrants added during the year, two 12-inch private fire services were cut off, one on French Street and one on Amory Street, both supplying the sprinkler service of the storehouse of the Boott Mills; one private fire hydrant was also discontinued. There are now in use 130 private fire services, supplying 84 hydrants, sprinklers and standpipes. Fourteen of these services are now metered, and meters will be set on many of the others as soon as practicable. Those not metered are sealed and inspected once a month.

PRIVATE FIRE SERVICES, JANUARY 1, 1906.

SIZE.	1½"	2"	3"	4"	6"	8"	10"	TOTAL.
	1	20	1	50	47	9	2	130

PRIVATE HYDRANTS, JANUARY 1, 1906.

KIND.	1 NOZ.	2 NOZ.	3 NOZ.	4 NOZ.	TOTAL.
Boston Machine.....		1	8		9
Chapman.....	1	10	1	5	17
Coffin.....			1		1
Flush .....(3)					3
Kenney.....		1			1
Ludlow.....		18	18	10	46
Michigan.....			3		3
Perkins.....		3	1		4
Totals 3	1	33	32	15	84

HYDRANTS, JANUARY 1, 1906.

KIND.	2 NOZ.	3 NOZ.	4 NOZ.	TOTAL.
Boston Machine..		170		170
Chapman.....	3	103	50	156
Coffin		1		1
Corey		13		13
Eddy		32	1	33
Flush (420)				420
Glanmorgan.....		1		1
Holyoke.....			1	1
Kennedy		2		2
Lowrey (11)				11
Ludlow	3	274	14	291
Michigan.....		38		38
O'Brien		1		1
Perkins.....			1	1
Walker.....		6		6
Totals... 431	6	641	67	1145

NEW SERVICES—1905.

150	3-4-inch iron tin-lined pipe	5,337 feet
3	1-inch iron tin-lined pipe	109 "
1	1-inch iron pipe	67 "
2	1 1-2-inch iron pipe	43 "
1	2-inch iron pipe	98 "
1	3-inch iron pipe	18 "
2	4-inch iron pipe	72 "
2	6-inch iron pipe	155 "
1	1-inch galvanized iron pipe	13 "
2	2-inch galvanized iron pipe	127 "
1	3-4-inch lead pipe	14 "
166		6,053 feet

Amount previously laid	445,611 feet
Total now laid	451,664 "
Total services laid	12,224
Total cut off at main	838
Total reconnected	65
Total now in use	11,451
Cost of extensions and services, \$14,213.08.	

More services were changed during the past year than for some years previously, which is accounted for by the difficulty encountered in attempting to clean them. In many instances, the pipe was so far gone that it could not be disturbed without breaking.

SERVICES CHANGED, 1905.

NO.	KIND.	CHANGED TO.				TOTAL FEET.
		TIN LINED $\frac{3}{4}$ "	TIN LINED 1"	GAL. IRON 1"	LEAD $\frac{5}{8}$ "	
63	$\frac{3}{4}$ " Iron	1600				1600
5	$\frac{3}{4}$ " Iron		142			142
10	1" Iron	371				371
8	1" Iron		186			186
1	1" Iron			22		22
2	$\frac{5}{8}$ " Lead	51				51
1	$\frac{5}{8}$ " Lead		29			29
1	$\frac{5}{8}$ " Lead				7	7
1	1" Lead		7			7
92		2022	364	22	7	2415

The action of your Honorable Board taken last year requiring meters on all new services has resulted in an increase in the number set compared with the previous year.

New meters set	381
Meters out for repairs	635
Meters reset	548
Meters frozen and burst	143
Meters condemned	26
Meters condemned, replaced with new.....	22
Meters discontinued	6
Meters repaired in cellars	241
Meters sold for private use	14

METERS RUNNING JANUARY 1, 1905.

NAMES.	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	TOTAL
Columbia	109	4							113
Crown.	2831	1586	305	20	21	5	5	2	4775
Desper	19	5	3						27
Duplex	1	1	4						6
Empire	244	41	5						290
Frost		1							1
Gem					7		5	3	15
Hersey	619	118	11	5			1	1	755
King	6								6
Lambert.	576	80							656
Metropolitan		1							1
Nash	217	84	46		1				348
Niagara	1	1							2
Thomson	5	19	2						26
Torrent						1	2	1	4
Trident	509	30	1						540
Union	28	7		1					36
Worthington	100	22	51	61	35	6	3		278
Worthington Disc..	10								10
Total	5275	2000	428	87	64	12	16	7	7889

PRIVATE METERS RUNNING JANUARY 1, 1906.

NAMES.	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{2}$ "	2"	TOTAL.
Columbia.....		9					9
Crown	1	29	23	2	1		56
Desper.....			3	1			4
Duplex.....		1					1
Empire		6					6
Frost.....		2	1				3
Hersey		25	1			1	27
King.....		1					1
Lambert.....		16					16
Nash		14	2			1	17
Thomson			1				1
Trident.....			6				6
Worthington..				1		3	4
TOTAL.	1	103	37	4	1	5	151

OPERATION.

All of the four pumping stations of the Department and all the pumps were operated at different times during the year. The Centralville Pumping Station was shut down only twice, then but for about a day at a time to clean the pump-well and the conduit. The Cook Well Pumping Station was run fifty-three days. This station has not been run so much since the completion of the Boulevard Well Plant, and it would not have been the past year but for the opportunity offered by the continued dry season to finish the lowering of the wells, which work would be feasible only when the level of the ground water was down; hence the advantage of pumping from the Cook Wells into the city. At the same time, it relieved the Boulevard Pumping Station, because the time the Cook Well Pumping Station was in operation was the period of the year when the consumption of water is greatest, and consequently the pumps at the Boulevard would have been forced to run faster than was best for their efficiency. The Boulevard Lower Station was run 255 days, and the Upper Station from August 12th to December 1st. Pumpage at the Boulevard Pumping Station was 155,174,278 gallons less than in 1904, owing, as before stated, to the operation of the Cook Plant, and for that reason also 310 tons less of coal were used to run the Boulevard Pumps. The total net pumpage, however, was about the same as the previous year, viz: 1,998,929,076 gallons against 2,007,487,767 gallons in 1904, and the total coal consumed was very nearly the same in both years, viz: 4.193 tons in 1904 and 4.173 the past year; which is, as you know, very much in excess of what would be needed with up-to-date pumping machinery.

Pumping Station expenses for labor, \$16,273.34.

Pumping Station expenses for fuel, \$19,028.95.

MAINTENANCE.

The sum of \$98,455.26 was expended for maintenance the past year. Much of that expense covers such a multitude of small items that a thorough enumeration of them would not be profitable. They all enter into the general work of promoting and ensuring the efficiency of the service and preserving the extensive equipment and other property of the department in good condition. As a matter of record, however, and for reference, it might be as well to state that the 6-inch water mains were lowered on Court Street, Fruit Street, Crawford Street, and Varnum Avenue, and the 8-inch main on Old Boston Road; also moved the 8-inch main on Riverside Street, Varnum Avenue; and the 6-inch main on Pine Street on account of sewer work. Replaced 92 old services with new tin-lined iron pipe, lowered a number of services which were frozen the previous winter, renewed 326 curb boxes, 13 valve boxes, and four flush hydrant boxes; repaired two leaks on street mains and 13 leaks on service pipes; had five main pipes and about 50 services frozen. All of the frozen mains and many of the services were thawed by electricity. The Lowell Electric Light Co. did the work and furnished transformer, wires, etc. By this method, many pipes were freed from ice which could not in the old way of forcing hot water into the pipes, without a vast amount of digging. Especially was this so in regard to the main pipes. After the wires were connected and the electric current turned on, water flowed from a service pipe in about a minute, and in about four hours the longest line of 8-inch main frozen—about 350 feet—was thawed out. The apparatus used was cumbersome, yet on the whole, I believe it proved an economical and effective help to the department in probably what was the most severe win-

ter for water pipes in the history of the city. In some places where digging had to be done to repair burst pipes, the ground was found frozen to a depth of five feet and over.

Three painters were employed during the year. Some of their work was the painting of two smokestacks at the Boulevard Pumping Stations, the Reservoir Keeper's residence, the fence at the High Service Reservoir, the fences around Fels Park and the other Parks belonging to the Department in Pawtucketville; varnishing the interior of the Department stable and harness room; papering and painting the interior of the houses of the Engineer and Fireman of the Boulevard; also all the drinking fountains and about 400 of the fire hydrants were painted.

The man in charge of the gates, hydrants and fountains reports that he repacked and repaired 96 stop gates, examined and repaired 275 fire hydrants; visited, cleaned and repaired large drinking fountains 389 times, small fountains 30 times; put on 25 new faucets for drinking fountains, flushed 21 private sewers and blew out 53 hydrants on account of complaints of dirty water on dead ends. From the first of April to December, three men were assigned to the work of caring for the grounds and parks of the Department. The Filter Gallery and Conduit were given the usual inspection, followed by a thorough cleaning. In the spring and again in the fall, the Boulevard Wells were scraped and then washed out.

A general blowing-off of the street mains took place twice during the year.

GENERAL CONDITION OF THE WORKS.

Knowing the troubles and difficulties of other cities of the state regarding their water supply and the almost hopeless outlook for some of them of being able to procure a sufficient quantity of good water excepting at enormous cost, it is sat-

isfying that that problem has been solved in Lowell and that the people of the City are blessed with an ample supply of very good water. The City has in its Water Works System a property of great value and the citizens should be ever vigilant to see that nothing is tolerated which would have a tendency to impair its efficiency or detract from its beneficial effect on the comfort, health and security of the people. For a little study will show how a good water supply for drinking and cooking purposes, for sanitary and for fire service vitally affects the lives and property of the community. As I stated in the Superintendent's Report last year: "Taking it as a whole, the Department is in good condition. It must be admitted, however, that its pumping outfit is lamentably weak and inefficient, and though the financial showing for the Department the past year is good, as far as the expenditures are concerned, a still further saving could be effected if the pumping equipment of the Department was brought up to date. A new pump to take the place of the low-duty Worthington ought to be considered as soon as possible."

So I believe now. Nothing was said particularly about the pumps at the Boulevard because it was understood that they were merely temporary pumps and were to be replaced when conditions in the Department made it advisable. The consideration of the matter during the year by Your Honorable Board developed the fact that while, owing to the more or less worn condition of the old pumps at the Centralville Pumping Station, a new pump was badly needed there; yet, in view of the very great saving in coal that would follow the installation of a new pump at the Boulevard Pumping Station, it was deemed the wisest plan to secure one for there first, and as an additional reason, the amount of money involved in the contract for this pump would be only one-half what would be required for a pump suitable for the Centralville Pumping Station. In other words, the price of the Boulevard Pump would be approximately \$20,000.00 against \$40,000.00 for one

at Centralville. According to the duty guaranteed by the Holly Manufacturing Co., the saving in fuel at the Boulevard Pumping Station by the operation of this pump would, in less than ten years, pay for the expense of the proposed Centralville Pump, principal and interest.

IN GENERAL.

In addition to serving the people with first class water, one object which the officials have always particularly in mind is to give the public good service by prompt attention to all orders, calls and complaints. Fire hydrants reported out of order are seen to at once; and if it takes all night, a hydrant is never left until put in condition for use. So it is when a report is received that a house service is stopped or leaking, that water is to be shut off or let on, whether it be night or day, Sunday or week-day, the matter is attended to immediately. For this purpose, of course, men are kept on duty during the twenty-four hours. Six teams are engaged in the work of the department. One is assigned to meters, one to services, one to hydrants, gates, etc., one for trucking, and two for helping the other teams at times, and for miscellaneous jobs, such as turning water off and on, delivering supplies to the pumping stations, etc.

Eleven thousand families or about 100,000 people are being supplied with water at their houses, in the shops, factories, churches, schools, and on the streets of the city. The means by which this is done and done satisfactorily are various and expensive, but it is worth all it costs, as is many times brought home to the officials of the Water Office when water is shut off for any length of time to make repairs.

CONCLUSION.

Before concluding this report, I feel in duty bound to refer to the very valuable services rendered this Department by the late August Fels, who, for upwards of eleven years, as a member of the Lowell Water Board—most of that time without salary—gave of his time, ability, and judgment honestly and freely, that the people of Lowell might have a good water supply. In all his undertakings of a public or semi-public character, he set an example of energetic devotion to the advancement of the City's interests. Personally, I realize that in his death I have suffered the loss of a generous and faithful friend.

With thanks to the President and Clerk of the Water Board and the members individually, this Report is respectfully submitted.

ROBERT J. THOMAS,

Superintendent.

LOW SERVICE—WATER PIPES LAID IN 1905.

Streets.	Between What Streets.	Length in Feet.					Total.
		4-In.	6-In.	8-In.	10-In.		
Apple.....	Extended northerly.....		24				24.0
Atherton Mills....	Tewksbury extension fire service.....		119				119.0
Barrington	Extended easterly.....		48				48.0
Beacon.....	Southerly to Mort Ave.....		36				36.0
Beaulieu.....	Extended northeasterly.....		147				147.0
Belle Ave.....	Extended westerly		84				84.0
Bertha.....	Southerly to Waugh Street....		132				132.0
Bowden.....	Connection		120				120.0
Cashin.....	Extended southerly.....		11				11.0
Corey.....	Extended southerly.....		15				15.0
Crawford	Extended northeasterly.....		60				60.0
Dalton.....	Easterly from Lilley Ave.....		112				112.0
Dana.....	Extended westerly.....		147				147.0
Dracut.....	Extended northwesterly.....		68½				68.5
Endicott.....	Extended northwesterly.....		72				72.0
Green.....	Westerly to Central St.....		90				90.0
High.....	Extended southerly		120				120.0
Hoyt Ave.....	Southerly from Waverly Ave..		271				271.0
Lowell Bleachery..	To fire service tank	55					55.0
Main	Tewksbury extension, Butman Rd. and Phoenix St.....		266				266.0
Market.....	Fire service to Hathaway Theatre.....	21					21.0
Moody.....	Northerly to town line.....			96			96.0
Oakland.....	Southerly to Parker.....		113				113.0
Olney.....	Extended westerly.....		60				60.0
Orchard	Extended northerly.....		24				24.0
Oxford.....	Southerly from Waterford.....		152				152.0
Parker.....	Oakland and Rhodora.....			193			193.0
Perkins.....	Northwesterly from Aiken				17		17.0
Phoenix.....	Tewksbury Extension, Main St. to Atherton Mill.....		1613				1613.0
Rhodora.....	Parker St., southerly		562				562.0
Shaw Machine Co.	Fire service, etc.....		1995				1995.0
Third Ave.....	Westerly from Dracut St.....		24				24.0
Victor	Easterly from Beaulieu.....		13				13.0
Victoria	Extended westerly		6				6.0
Waugh	Easterly from Bertha.....		96				96.0
Weed	Extended easterly.....		616				616.0
West Bowers.....	Westerly from School.....		229				229.0
Westchester	Westerly from Stevens		123				123.0
Wightman.....	Northerly from Princeton St ..		120				120.0
	Hydrant pipe.....		40				40.0
	Laid in 1905.....	76	7928½	289	17		8310.5

HIGH SERVICE—WATER PIPES LAID IN 1905.

Streets	Between what Streets	Length in Feet				Total
		4 in.	6 in.	8 in.	10 in.	
Beacon	Northerly to Mort Avenue...		62			62.0
Mort Avenue..	Westerly from Beacon Street.		148			148.0
	Laid in 1905		210			210.0
	High Service laid previous to 1905.....					37922.0
	Total High Service to Jan. 1, 1906.....					38132.0

Brought forward 8,310.5 ft.

Low Service laid previous to 1905..... 667,897.0 "

Total Low Service to Jan. 1, 1906..... 676,207.5 ft.

Total High Service to Jan. 1, 1906..... 38,132.0 "

Total High and Low Service to Jan. 1, 1906..... 714,339.5 ft.

Total in miles, 135.29.

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1905.

STREETS.	LOCATION.	4-In.	6-In.	8-In.	10-In.	12-In.	16-In.
Alder.....	17 feet east of west line, Alder Street, 23 feet south of north line, Stackpole Street.....	1					
Amory.....	12-inch gate and connection to Boott storehouse taken out.....						
Atherton Mill.....	Tewksbury extension, in mill yard 80½ feet south of south line, Phoenix Street, 35.5 west of west line of mill.....	1					
Bridge.....	20.1 feet east of west line Bridge Street, on south line Amory Street.....				1		
Dalton.....	12 feet south of north line Dalton Street, on east line Lilley Avenue.....	1					
French.....	12-inch gate and connection to Boott storehouse taken out.....						
Gorham.....	1.7 feet north of south line Saratoga Street, 31.7 feet west of east line, Gorham Street, on street car sprinkler standpipe.....	1					
Green.....	20 feet east of east line Donovan Building, 26 feet south of north line, Green Street.....	1					
Hoyt Ave.....	12 feet east of west line Hoyt Avenue, on south line Waverly Avenue.....	1					
King.....	On hydrant connection, near Middlesex Street.....	1					
Lawrence.....	16.2 feet west of east line Lawrence Street, 15.2 feet south of south line Watson Street, on street car sprinkler standpipe.....	1					
Liberty.....	29.8 feet north of south line Liberty Street, on west line Warwick Street.....	1					
Lowell Bleachery....	9.1 feet north of south line Carter Street, on supply to Lowell Bleachery Co.'s fire service tank.....	1					
Mammoth Road.....	31.5 feet east of west line Mammoth Road, 31 feet north of north line Pawtucket Bridge.....		1				
Market.....	On fire service to Hathaway's Theatre, 17 feet south of north line Market Street, 12.6 feet west of west line, Putnam's Building.....	1					
Oakland.....	12 feet east of west line Oakland Street, on north line Parker Street.....	1					
Oxford.....	12 feet east of west line Oxford Street, on south line of Waterford Street.....	1					
Phoenix.....	Tewksbury extension, 12 feet south of north line Phoenix Street, on west line Main Street.....	1					
Phoenix.....	Tewksbury extension, 16.6 feet south of north line Phoenix Street, 35.8 feet west of west line, main mill.....	1					
Rhodora.....	12 feet east of west line Rhodora Street, on south line Parker Street.....	1					

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1905—Continued.

STREETS.	LOCATION.	4-in.	6-in.	8-in.	10-in.	12-in.	16-in.
Rogers.....	Tewksbury extension, 29.8 feet north of south line Butman Road, 12 feet west of east line, Main Street.....		1				
Shaw Machine Co...	7 feet south of north line Middlesex Street, 8 feet west of easterly lot line.....		1				
Shaw Machine Co...	In mill yard on branch to erecting shop.....		1				
Shaw Machine Co...	It mill yard on main line near boiler house.....		1				
West Bowers.....	11.9 feet north of south line West Bowers Street, on west line School Street.....		1				
Westchester.....	12 feet south of north line Westchester Street, 29.8 feet west of east line, Stevens Street.....		1				
Wightman.....	12 feet east of west line Wightman Street, on north line Princeton Street.....		1				

HIGH SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1905.

STREETS.	LOCATION.	4-in.	6-in.	8-in.	10-in.	12-in.	16-in.
Beacon.....	12 feet east of west line Beacon Street, on north line of Mort Avenue.....		1				
Mort Avenue.....	12 feet south of north line Mort Avenue, on west line of Beacon Street.....		1				
Richards.....	12.6 feet south of north line Richards Street, on west line Christian Street.....		1				

LOW SERVICE—LIST OF HYDRANTS SET DURING THE YEAR 1905.

STREETS.	LOCATION.
Agawam	Location of hydrant changed, westerly side
Amory.....	Location of hydrant, near Boott storehouse, changed
Cashin.....	On pipe terminus, westerly side
Corey.....	On pipe terminus, westerly side
Harvard.....	Change of location, near Troy Street
Moody.....	Westerly side, near Town line
Rhodora.....	Westerly side, 833 ft. south of Parker Street
Shaw Machine Co.	Post hydrant in mill yard, south of engine room
Shaw Machine Co.	Post hydrant in mill yard, south of No. 1 shop
Shaw Machine Co.	Post hydrant in mill yard, west of erecting shop
Shaw Machine Co.	Post hydrant in mill yard, east of smith-shop
Victoria	Northerly side, on end of pipe

HIGH SERVICE—LIST OF HYDRANTS SET DURING THE YEAR 1905.

STREETS.	LOCATION.
Laurel.....	Southerly side, near No. 34
Richards.....	Northerly side, 8.2 ft. west of Christian St.

Report of the City Engineer

OFFICE OF CITY ENGINEER.

LOWELL, MASS., January 1, 1906.

To the Lowell Water Board:

GENTLEMEN:—I have the honor to submit the Thirty-third Annual Report, for the year ending December 31, 1905.

PUMPAGE.

Total net pumpage for 1905.....	1,998,929,076 Gallons
Total net pumpage for 1904.....	2,007,487,767 Gallons
A decrease in 1905 of.....	8,558,691 Gallons

CONSUMPTION.

Consumption for 1905.....	1,998,083,884 Gallons
Consumption for 1904.....	2,007,628,279 Gallons
A decrease in 1905 of.....	9,544,395 Gallons

The maximum pumpage for any one day was on Friday, August 11th, viz:—

At West Sixth Street Station.....	5,856,375 Gallons
At Cook Wells Station.....	2,521,600 Gallons
Total	8,377,975 Gallons

The maximum pumpage for any one week was on the week of February 10th to February 16th, viz:—

At West Sixth Street Station.....	37,249,280 Gallons
At Cook Wells Station.....	17,718,720 Gallons
Total.....	<u>54,968,000 Gallons</u>

The pumpage for High Service was 58,384,214 gallons, which is 9,790,774 gallons less than last year.

Cost of Low Service pumpage in 1905....	\$19 50 per million gallons
Cost of Low Service pumpage in 1904....	19 69 per million gallons
A decrease in 1905 of.....	19 per million gallons
Cost of High Service pumpage in 1905...	\$12 83 per million gallons
Cost of Low Service, exclusive of Cook Wells, in 1905.....	<u>19 01 per million gallons</u>
Total cost of High Service pumpage in 1905.	\$31 84 per million gallons
Total cost of High Service pumpage, exclusive of Cook Wells, in 1904.....	<u>31 17 per million gallons</u>
An increase in 1905 of.....	\$ 67 per million gallons

TABLE SHOWING QUANTITY PUMPED EACH MONTH AT THE SEVERAL STATIONS
DURING THE YEAR 1905.

Months	PUMPING STATIONS											Grand Totals	Net Totals
	Driven Wells				West Sixth Street				Totals Low Service	High Service			
	Cook Wells	Lower Boulevard	Upper Boulevard	Totals	Net Totals	Worth'gton High Duty	Worth'gton Duplex	Morris					
Jan.....	.....	195,038,914	.....	195,038,914	.....	56,623,500	11,348,170	110,865,600	178,837,270	2,948,820	376,825,004	178,837,270	
Feb.....	37,288,000	170,626,758	.....	207,914,758	37,288,000	18,460,125	12,940,020	124,309,440	155,709,585	3,150,350	366,774,693	192,997,585	
March ..	.....	169,602,894	.....	169,602,894	.....	72,197,625	.....	98,939,520	171,137,145	3,160,388	343,900,427	171,137,145	
April....	.....	151,780,068	.....	151,780,068	.....	134,745,375	.....	25,183,040	159,928,415	3,089,926	314,798,409	159,928,415	
May.....	.....	153,797,308	.....	153,797,308	.....	25,026,375	.....	130,652,800	155,679,175	3,686,410	313,162,893	155,679,175	
June....	.....	171,430,842	.....	171,430,842	.....	32,986,875	.....	128,556,160	161,543,035	3,951,906	336,925,783	161,543,035	
July.....	.....	172,847,054	.....	172,847,054	.....	.....	.....	169,435,200	169,435,200	7,385,420	349,667,674	169,435,200	
Aug.....	46,016,728	62,678,370	70,678,494	179,373,592	46,016,728	16,769,625	75,048,210	47,457,600	139,275,435	7,620,088	326,269,115	185,292,163	
Sept.....	6,176,000	.....	145,262,756	151,438,756	6,176,000	.....	10,447,620	131,596,480	142,044,100	7,338,814	300,821,670	148,220,100	
Oct.....	37,532,718	.....	123,324,292	160,857,010	37,532,718	428,250	70,934,820	61,253,120	132,616,190	8,026,410	301,499,610	170,148,908	
Nov.....	.....	.....	141,862,344	141,862,344	.....	.....	82,467,130	66,603,200	149,070,330	4,902,254	295,834,928	149,070,330	
Dec.....	.....	146,696,564	2,353,182	149,049,746	.....	.....	133,530,950	23,108,800	156,639,750	3,123,428	308,812,924	156,639,750	
Totals..	127,013,446	1,394,498,772	483,481,068	2,004,993,286	127,013,446	357,237,750	396,716,920	1,117,960,960	1,871,915,630	58,384,214	3,935,293,130	1,998,929,076	

TABLE SHOWING SOURCE OF SUPPLY, QUANTITY PUMPED AND COST OF PUMPING AT THE SEVERAL STATIONS DURING THE YEAR 1905.

PUMPING STATIONS	SOURCE OF SUPPLY—WELL WATER				COST	
	345 Driven Wells at Pawtucket Boulevard	210 Driven Wells in the valley of River Meadow Brook	Distributing Mains of Low Service System	Totals in U. S. Gallons	Totals	Per Million Gallons
West Sixth Street Low Service.....	1,871,915,630	.....	.....	1,871,915,630	\$19,398 31	\$10 36+
High Service.....	.....	.....	58,384,214	58,384,214	748 94	12 83—
Cook Wells.....	.....	127,013,446	.....	127,013,446	3,392 77	26 71+
*Lower Boulevard.....	1,394,498,772	.....	.....	1,394,498,772	11,821 76	8 47—
*Upper Boulevard.....	483,481,068	.....	.....	483,481,068	4,363 72	9 03—
Total Pumpage.....	1,394,498,772	.....	.....	3,935,293,130	\$39,725 50	\$10 09+
Deduct { at Lower Boulevard.....	483,481,068	.....	.....	.....	.....	.....
quantity { at Upper Boulevard.....	.....	.....	.....	.....	.....	.....
pumped { by High Service.....	.....	.....	58,384,214	1,936,364,054	.....	.....
Net Pumpage.....	.....	.....	.....	1,998,929,076	\$39,725 50	\$19 87+
Cost, exclusive of High Service.....	.....	.....	.....	.....	.....	19 50—
Cost, exclusive of High Service and Cook Wells.....	.....	.....	.....	.....	.....	19 01—
Total cost of High Service Pumpage.....	.....	.....	.....	.....	.....	31 84—

*Repumped at West Sixth Street.

The following tables, showing the performance of the engines, depth and quantity of water in the Beacon Street Reservoir, average temperature of the air and water at the Beacon Street Reservoir, and the average monthly and daily consumption of water, have been calculated and compiled from the records kept by the engineers and gatekeeper.

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH DUTY ENGINE,
FOR EACH MONTH DURING THE YEAR 1905.

MONTHS	No. of days pumping	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head including friction, in feet	Quantity pumped in U. S. gallons	Average quantity pumped in U. S. gallons	No. gallons of water pumped into reservoir per lb. total coal consumed	Duty in lbs. 1 foot high coal used in pumping only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January.....	10	20-40	206-45	150,996	12.17	164.72	56,023,500	5,662,350	477	65,692,030	65,470,701
February.....	4	16-07	64-30	49,227	12.72	164.78	18,460,125	4,615,031	490	67,284,692	67,284,692
March.....	15	19-14	288-30	192,527	11.12	164.74	72,197,625	4,813,175	403	55,269,582	55,269,582
April.....	26	22-48	593-00	359,321	10.10	164.73	134,745,375	5,182,514	429	60,744,127	58,900,892
May.....	5	22-06	110-30	66,737	10.07	164.71	25,026,375	5,005,275	486	67,995,828	66,676,121
June.....	5	20-39	103-15	87,965	14.20	164.55	32,986,875	6,597,375	585	81,418,370	80,262,704
July.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August.....	4	17-00	68-00	44,719	10.96	164.35	16,769,625	4,192,406	627	85,946,620	85,946,620
September..	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October.....	1	2-00	2-00	1,142	9.52	164.43	428,250	428,250	627	85,923,373	85,923,373
November...	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December...	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals and Average...	70	20-31	1436-30	952,634	11.05	164.69	357,237,750	5,103,396	455	63,399,797	62,452,565

TABLE SHOWING WORK DONE WITH WORTHINGTON DUPLEX ENGINE, FOR
EACH MONTH DURING THE YEAR 1905.

MONTHS	No. of days pump- ing	Average no. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average no. of strokes made per minute	Average head, including friction, in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gals.	No. gals. of water pumped into reservoir per pound, total coal consumed	Duty in lbs. with 100 lbs. coal used in pumping only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January....	3	16-15	48-45	36,607	12.52	164.86	11,348,170	3,782,723	331	45,413,271	45,413,271
February....	5	11-54	59-30	41,742	11.69	164.77	12,940,020	2,588,004	375	51,467,464	51,467,464
March.....	..	.....	.....	.....	.....	.....	.....	.....	...	.....	...
April.....	..	.....	.....	.....	.....	.....	.....	.....	...	.....	.....
May.....	..	.....	.....	.....	.....	.....	.....	.....	...	.....	.....
June.....	..	.....	.....	.....	.....	.....	.....	.....	...	.....	.....
July.....	..	.....	.....	.....	.....	.....	.....	.....	...	.....	.....
August.....	20	23-30	470-00	242,091	8.88	163.99	75,048,210	3,752,410	407	55,578,782	55,578,782
September...	3	22-00	66-00	33,702	8.51	163.86	10,447,620	3,482,540	404	61,935,085	55,222,810
October.....	19	21-24	406-30	228,822	9.38	164.44	70,934,820	3,733,412	387	58,532,622	53,093,259
November...	18	21-11	381-15	266,023	11.63	163.92	82,467,130	4,581,507	462	63,417,029	63,062,058
December...	27	22-50	616-30	430,745	11.64	163.96	133,530,950	4,045,591	440	60,089,486	60,089,486
Totals and Averages..	95	21-34	2048-30	1,279,732	10.41	164.12	396,716,920	4,175,968	420	58,736,527	57,442,280

TABLE SHOWING WORK DONE WITH MORRIS ENGINE (BEAM AND FLY WHEEL)
FOR EACH MONTH DURING THE YEAR 1905.

MONTHS	No. of days pumping	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per minute	Average head, including friction, in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per lb. total coal consumed	Duty in lbs. 1 foot high with 100 lbs. coal used in pumping only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January.....	22	22-10	487-30	11.84	164.59	110,865,600	5,039,345	484	67,127,000	66,353,754
February....	26	22-24	582-30	11.11	164.63	124,309,440	4,781,132	397	54,891,475	54,452,613
March.....	21	21-40	455-00	11.33	164.61	98,939,520	4,711,406	404	56,446,442	55,393,192
April.....	6	19-40	118-00	11.12	164.63	25,183,040	4,197,173	442	60,612,931	60,612,931
May.....	26	23-06	600-30	11.33	164.50	130,652,800	5,025,108	546	78,023,071	74,797,483
June.....	26	23-25	609-00	10.99	164.20	128,556,160	4,944,468	631	86,333,098	86,333,098
July.....	31	24-00	744-00	11.86	164.30	169,435,200	5,465,652	636	88,577,694	87,096,300
August.....	9	22-53	206-00	12.00	164.14	47,457,600	5,273,067	647	88,531,490	88,531,490
September...	27	23-38	638-00	10.74	164.46	131,596,480	4,873,944	527	73,310,542	72,233,067
October.....	14	20-30	287-00	11.12	164.53	61,253,120	4,375,223	522	74,396,431	71,605,656
November....	15	22-12	333-00	10.42	164.54	66,603,200	4,440,213	433	59,641,493	59,370,108
December....	6	20-55	125-30	9.59	163.90	23,108,800	3,851,467	348	48,096,567	47,517,348
Totals and Averages..	229	22-39	5,186-00	11.23	164.45	1,117,960,960	4,881,926	505	70,248,721	69,182,333

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH SERVICE ENGINE FOR
EACH MONTH DURING THE YEAR 1905.

MONTHS	No. of Days Pumping	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction in feet	Quantity pumped in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per pound total coal consumed	Coal in pounds used when pumping
January...	10	15-21	153-30	210.630	22.87	70.44	2,948.820	294.882	300	9,830
February..	11	14-35	160-30	225.025	23.36	70.44	3,150.350	286.395	300	10,498
March....	10	14-54	149-00	225.742	25.25	70.44	3,160.388	316.039	300	10,532
April.....	9	16-43	150-30	220.709	24.44	70.44	3,089.926	343.325	300	10,298
May.....	11	15-49	174-00	263.315	25.22	70.44	3,686.410	335.128	300	12,286
June.....	10	17-51	178-30	282.279	26.36	70.44	3,951.906	395.191	300	13,173
July.....	27	23-44	641-00	527.530	13.72	93.59	7,385.420	273.534	300	24,610
August....	31	24-00	744-00	544.292	12.19	93.59	7,620.088	245.809	300	25,394
September.	30	24-00	720-00	524.201	12.13	93.59	7,338.814	244.627	300	24,456
October....	31	24-00	744-00	573.315	12.84	93.59	8,026.410	258.916	300	26,766
November..	17	21-39	368-00	350.161	15.86	84.06	4,902.254	288.368	300	16,338
December..	10	15-24	154-00	223.102	24.15	70.44	3,123.428	312.343	300	10,405
Totals and Averages..	207	20-57	4337-00	4,170.301	16.03	84.87	58,384,214	282,049	300	194,586

TABLE SHOWING AMOUNT OF COAL USED FOR
 WORTHINGTON HIGH DUTY ENGINE AT
 PUMPING STATION DURING THE YEAR 1905.

Months	For Starting Fires, In Pounds	When Pumping, In Pounds	For Banking Fires, In Pounds	Total Per Month, In Pounds
January.....	200	118,327	200	118,727
February.....	.....	37, 677	.....	37,677
March.. .....	.....	179,345	.....	179,345
April.....	6,130	304,534	3,400	314,064
May.....	.....	50,523	1,000	51,523
June.....	800	55,561	.....	56,361
July.....	.....	.....	.....	.....
August.....	.....	26,725	.....	26,725
September.....	.....	.....	.....	.....
October.....	.....	683	.....	683
November.....	.....	.....	.....	.....
December.....	.....	.....	.....	.....
Totals	7,130	773,375	4,600	785,105

TABLE SHOWING AMOUNT OF COAL USED FOR
WORTHINGTON DUPLEX ENGINE AT PUMP-
ING STATION DURING THE YEAR 1905.

MONTHS	COAL CONSUMED			
	For starting fires, in lbs.	When pumping, in lbs.	Banking fires, in lbs.	Total per month, in lbs.
January .....	.....	34,333	.....	34,333
February .....	.....	34,525	.....	34,525
March .....	.....	.....	.....	.....
April .....	.....	.....	.....	.....
May .....	.....	.....	.....	.....
June .....	.....	.....	.....	.....
July .....	.....	.....	.....	.....
August .....	.....	184,545	.....	184,545
September . .	1,400	23,036	1,400	25,836
October	9,615	166,082	7,400	183,097
November	500	177,648	500	178,648
December .....	.....	303,651	.....	303,651
Totals.....	11,515	923,820	9,300	944,635

TABLE SHOWING AMOUNT OF COAL USED FOR
MORRIS ENGINE AT PUMPING STATION DURING THE YEAR 1905.

MONTHS	COAL CONSUMED			
	For Starting Fires, in lbs.	When pump- ing, in lbs.	For Banking Fires, in lbs.	Total per month, in lbs.
January	2,640	226,546	.....	229,186
February	2,505	310,809	.....	313,314
March	4,550	240,460	.....	245,010
April .....	.....	57,004	.....	57,004
May	8,300	229,570	1,600	239,470
June .....	.....	203,771	.....	203,771
July	4,455	261,921	.....	266,376
August .....	.....	73,329	.....	73,329
September	2,870	246,032	800	249,702
October	2,200	112,895	2,200	117,295
November	350	153,134	350	153,834
December	400	65,629	400	66,429
Totals	28,270	2,181,100	5,350	2,214,720

TABLE SHOWING AMOUNT OF COAL USED FOR
DEANE ENGINES AT PUMPING STATION,
COOK WELLS, DURING THE YEAR 1905.

MONTHS	COAL CONSUMED			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total per month, in lbs.
January				
February		168,540	.....	168,540
March				
April				
May				
June				
July				
August		209,555	.....	209,555
September		25,225	.....	25,225
October		166,210	.....	166,210
November				
December				
Totals		569,530	.....	569,530

TABLE SHOWING AMOUNT OF COAL USED FOR
KNOWLES ENGINES AT PUMPING STATION,
LOWER BOULEVARD, DURING THE YEAR 1905.

MONTHS	COAL CONSUMED			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total per month, in lbs.
January		429,378	.....	429,378
February		383,035	.....	383,035
March		365,070	.....	365,070
April		305,005	.....	305,005
May		311,875	.....	311,875
June		299,265	.....	299,265
July		324,720	.....	324,720
August		120,500	.....	120,500
September				
October				
November				
December		272,635	.....	272,635
Totals		2,811,483	.....	2,811,483

TABLE SHOWING AMOUNT OF COAL USED FOR
 WORTHINGTON ENGINES AT PUMPING
 STATION, UPPER BOULEVARD,
 DURING THE YEAR 1905.

MONTHS	COAL CONSUMED			
	For starting Fires in lbs.	When pump- ing, in lbs.	For banking Fires, in lbs.	Total per month, in lbs.
January				
February				
March				
April				
May				
June				
July				
August		114,840	.....	114,840
September		244,245	.....	244,245
October		211,980	.....	211,980
November		252,145	.....	252,145
December		4,500	.....	4,500
Totals		827,710	.....	827,710

WEST SIXTH STREET PUMPING STATION,
 WORTHINGTON HIGH DUTY ENGINE, RUN-
 NING EXPENSES FOR THE YEAR 1905.

Pay of Engineers and Firemen	\$1,700 03
46 1291-2000 tons of coal (New River Cumb. 1904) at \$.085—.	190 54
14 1747-2000 tons of coal (New River Cumb. 1905) at \$.062+.	60 42
92 1207-2000 tons of coal (New River Cumb. 1905) at \$.286—.	396 87
5 1026-2000 tons of coal (New River Cumb. 1905) at \$.330+..	23 87
232 1834-2000 tons of coal (New River and Pocahontas Cumber- land 1905) at \$.598+.....	1,071 00
85 gallons of cylinder oil, at \$.604—	51 31
45 gallons of engine oil, at \$.309.....	13 90
66 5-10 pounds of packing, at \$.922+.....	61 33
36 pounds of cotton waste, at \$.125.....	4 50
14 pounds of tallow, at \$.070.....	98
Repairs on engine.....	144 38
Repairs on boilers.....	80 87
Tools and stock	9 25
Sundries.....	26 20
 Total.....	 \$3,835 45

Cost of pumping water into reservoir per million gallons, \$10.74—.

Cost of pumping water one foot high per million gallons, \$.06 52-100—.

WEST SIXTH STREET PUMPING STATION,
 WORTHINGTON DUPLEX ENGINE, RUNNING
 EXPENSES FOR THE YEAR 1905.

Pay of Engineers and Firemen	\$1,983 37
56 247-2000 tons of coal (New River Cumb. 1904) at \$4.085—..	229 25
17 1792-2000 tons of coal (New River Cumb. 1905) at \$4.062+.	72 71
111 841-2000 tons of coal (New River Cumb. 1905) at \$4.286—	477 51
6 1267-2000 tons of coal (New River Cumb. 1905) at \$4.330+..	28 73
280 488-2000 tons of coal (New River and Pocahontas Cumber- land 1905) at \$4.598+.....	1,288 62
99 gallons of cylinder oil, at \$0.604—.....	59 76
52 gallons of engine oil, at \$0.309.....	16 07
43 pounds of packing, at \$1.044—.....	44 88
43 pounds of cotton waste, at \$0.125.....	5 37
107 pounds of tallow, at \$0.07.....	7 49
Repairs on boilers.....	94 35
Tools and Stock.....	10 79
Sundries.....	37 27
Total.....	\$4,356 17

Cost of pumping water into reservoir per million gallons, \$10.98+.

Cost of pumping water one foot high per million gallons, \$0.06 69-100+.

WEST SIXTH STREET PUMPING STATION, MOR-
RIS ENGINE, RUNNING EXPENSES FOR
THE YEAR 1905.

Pay of Engineers and Firemen.....	\$5,477 88
131 1166-2000 tons of coal (New River Cumb. 1904) at \$4.085—.	537 49
41 1915-2000 tons of coal (New River Cumb. 1905) at \$4.062+.	170 46
261 455-2000 tons of coal (New River Cumb. 1905) at \$4.286—..	1,119 55
15 1105-2000 tons of coal (New River Cumb. 1905) at \$4.330+..	67 34
657 79-2000 tons of coal (New River and Pocahontas Cumber- land, 1905) at \$4.598+.....	3,021 22
273 gallons of cylinder oil, at \$0.604—.....	164 78
145 gallons of engine oil, at \$0.309.....	44 80
55 pounds of packing, at \$0.601—.....	33 05
117 pounds of cotton waste, at \$0.125.....	14 62
35 pounds of tallow, at \$0.06.....	2 10
Repairs on engine.....	186 93
Repairs on boilers	260 60
Tools and stock	29 80
Sundries.....	76 07
Total.....	\$11,206 69

Cost of pumping water into reservoir per million gallons, \$10.02+.

Cost of pumping water one foot high per million gallons, \$0.06 10-100—.

WEST SIXTH STREET PUMPING STATION, HIGH
SERVICE ENGINE, RUNNING EXPENSES
FOR THE YEAR 1905.

Pay of Engineers and Firemen.....	\$283 34
11 1122-2000 tons of coal (New River Cumb. 1904) at \$4.085—	47 22
3 1373-2000 tons of coal (New River Cumb. 1905) at \$4.062+	14 98
22 1903-2000 tons of coal (New River Cumb. 1905) at \$4.286—.	98 36
1 733-2000 tons of coal (New River Cumb. 1905) at \$4.330+...	5 92
57 1455-2000 tons of coal (New River and Pocahontas Cumber- land, 1905) at \$4.598+.....	265 44
14 gallons of cylinder oil, at \$0.604—.....	8 45
7 5-10 gallons of engine oil, at \$0.309.....	2 32
5 5-10 pounds of packing, at \$0.50.....	2 75
6 pounds of cotton waste, at \$0.125.....	0 75
Repairs on engine.....	0 88
Repairs on boilers.....	13 48
Tools and stock	1 54
Sundries	3 51
 Total.....	 \$748 94

Cost of pumping water into reservoir per million gallons \$12 83—.

Cost of pumping water one foot high per million gallons \$0.15 11-100+.

COOK WELLS PUMPING STATION, DEANE EN-
GINES, RUNNING EXPENSES FOR
THE YEAR 1905.

Pay of Engineers and Firemen.....	\$1,757 00
260 tons of coal (Sonman Cumb. 1904) at \$5.125.....	1,332 50
24 1530-2000 tons of coal (Pocahontas Cumb. 1905) at \$4.598+.	113 87
215 gallons of kerosene oil for lighting works, at \$0.109—....	23 34
53 gallons of cylinder oil, at \$0.44.....	23 32
9 gallons of engine oil, at \$0.35.....	3 15
50 pounds of packing, at \$0.706.....	35 30
62 pounds of cotton waste, at \$0.122—.....	7 56
13 pounds of tallow, at \$0.06.....	78
Repairs on engines....	31 55
Repairs on boilers.....	13 75
Tools and stock	84
Sundries	49 81
 Total	 \$3,392 77

Cost of pumping water into distributing mains per million gallons,
\$26.71+.

LOWER BOULEVARD PUMPING STATION,
KNOWLES ENGINES, RUNNING EXPENSES
FOR THE YEAR 1905.

Pay of Engineers and Firemen	\$ 5,224 49
642 1156-2000 tons of coal (New River Cumb. 1904) at \$4.241+	2,725 20
763 327-2000 tons of coal (Pocahontas Cumb. 1905) at \$4.598—	3,509 18
448 5-10 gallons kerosene oil for lighting works, at \$0.113—	50 55
146 gallons of cylinder oil, at \$0.486—.....	70 88
36 gallons of engine oil, at \$0.35.....	12 60
24 pounds of packing, at \$0.881+.....	21 15
106 5-10 pounds of cotton waste, at \$0.127+.....	13 57
12 pounds of tallow, at \$0.067.....	80
Repairs on engines.....	39 24
Repairs on boilers.....	20 39
Tools and stock	12 78
Sundries.....	120 93
Total.....	<u>\$11,821 76</u>

Cost of pumping water into conduit per million gallons, \$8.48—

UPPER BOULEVARD PUMPING STATION,
 WORTHINGTON ENGINES, RUNNING EX-
 PENSES FOR THE YEAR 1905.

Pay of Engineers and Firemen.....	\$2,347 23
30 tons of coal (New River Cumberland, 1904) at \$4.241+	127 23
383 1710-2000 tons of coal (Pocahontas Cumb. 1905) at \$4.598+ ..	1,765 05
201 5-10 gallons kerosene oil for lighting works, at \$0.113—..	22 70
65 gallons of cylinder oil, at \$0.486—.....	31 56
16 gallons of engine oil, at \$0.35.....	5 60
10 pounds of packing, at \$0.881+	8 81
48 pounds of cotton waste, at \$0.127+.	6 11
6 pounds of tallow, at \$0.067—.....	40
Repairs on engines.....	13 92
Repairs on boilers.....	26 24
Sundries.....	8 87
Total.....	\$4,363 72

Cost of pumping water into conduit per million gallons, \$9.03—.

RESERVOIR, BEACON STREET, 1905.

MONTHS	Depth in feet	Quantity in U. S. gallons	Temperature in Degrees	
			Of Water	Of Air
January	19.71	30,026,592	43.94	23.82
February	19.36	29,477,400	40.16	21.38
March	20.18	30,812,073	39.47	35.47
April	20.05	30,606,135	38.40	47.18
May	19.96	30,444,129	39.98	58.42
June	19.78	30,139,403	45.22	65.74
July	17.42	26,219,307	52.53	74.24
August	19.10	29,006,989	56.39	69.31
September	19.97	30,465,248	59.62	62.09
October	19.95	30,430,049	59.27	52.18
November	19.72	30,050,455	56.05	39.47
December	20.16	30,789,485	52.63	33.02

TABLE SHOWING THE AVERAGE MONTHLY
AND DAILY CONSUMPTION OF WATER
FOR THE YEAR 1905.

MONTHS	Gallons per Month	Gallons per Day
January.....	179,117,871	5,777,996
February.....	192,013,011	6,857,608
March.....	171,278,222	5,525,104
April.....	159,504,759	5,316,825
May.....	163,779,733	5,283,217
June.....	154,569,400	5,152,313
July.....	172,213,124	5,555,262
August.....	180,393,961	5,819,160
September...	150,760,548	5,025,355
October.....	168,884,294	5,447,880
November.	149,493,138	4,983,105
December.....	156,075,723	5,034,701
Totals and Averages	1,998,083,884	5,474,202

The following table shows the average daily consumption of water, in gallons, for each month and each year since the installation of the system

AVERAGE DAILY CONSUMPTION OF WATER, IN GALLONS, FOR EACH MONTH
AND YEAR FROM JANUARY, 1873, TO DECEMBER, 1905, INCLUSIVE.

YEARS	MONTHS												For the Year
	January	February	March	April	May	June	July	August	September	October	November	December	
1873	308,777	373,437	327,321	356,148	430,301	569,770	836,215	588,634	571,621	531,022	480,646	591,202	511,462
1874	633,810	667,770	638,840	609,470	708,760	919,830	977,360	895,820	880,880	760,560	750,060	890,220	789,208
1875	1,211,480	1,377,880	1,092,070	1,070,810	1,061,770	1,314,750	1,389,560	1,660,070	1,248,470	1,117,280	1,117,280	1,549,510	1,222,300
1876	1,484,980	1,527,880	1,325,790	1,275,180	1,275,180	1,554,764	2,011,640	2,062,020	1,539,326	1,348,380	1,193,376	1,805,880	1,484,882
1877	1,993,090	1,616,882	1,443,180	1,291,636	1,455,870	1,780,113	2,677,740	1,758,760	1,906,975	1,501,890	1,496,773	1,560,420	1,631,360
1878	2,033,990	1,894,890	1,683,690	1,287,310	1,824,140	1,760,330	2,667,500	1,813,970	1,878,048	1,643,400	1,515,424	1,804,850	1,784,960
1879	2,407,950	2,241,030	1,921,940	1,716,990	2,020,250	1,991,590	2,133,170	2,050,340	1,908,050	1,950,330	1,756,600	2,178,000	2,023,200
1880	1,977,760	2,144,660	1,933,610	1,839,800	2,223,670	2,486,780	2,438,080	2,492,330	2,408,940	2,268,430	2,229,350	2,574,600	2,252,197
1881	3,151,280	3,054,550	2,245,410	2,222,330	2,293,580	2,281,370	2,383,280	2,472,830	2,350,290	2,205,760	2,052,790	2,158,930	2,399,168
1882	2,883,560	2,809,540	2,263,290	2,163,990	2,203,580	2,774,220	3,220,640	3,220,680	2,651,590	2,434,430	2,211,800	2,629,940	2,622,615
1883	3,341,650	3,068,900	2,893,330	2,436,600	2,730,670	2,907,920	2,988,780	3,220,780	2,910,440	2,806,130	2,648,010	3,063,920	2,862,710
1884	3,000,150	3,032,120	3,025,910	2,513,700	2,996,500	3,127,330	3,185,420	3,166,500	3,111,910	2,806,130	2,648,010	3,334,160	3,016,040
1885	4,137,730	4,924,980	3,907,890	3,103,350	3,416,380	3,943,140	3,545,920	3,303,190	3,243,620	3,367,880	3,125,447	3,563,220	3,562,710
1886	4,527,610	4,927,900	4,213,570	3,490,590	4,222,327	4,300,540	4,044,170	3,922,610	3,693,650	3,440,450	3,516,680	4,408,650	3,957,650
1887	6,011,290	7,672,659	5,706,024	4,213,317	4,241,156	4,836,489	4,868,093	4,320,440	4,200,049	3,894,148	3,672,885	4,480,818	4,319,164
1888	5,679,917	7,407,935	5,305,426	4,139,759	4,516,328	4,738,913	4,919,008	4,769,079	4,667,616	4,378,843	4,512,348	5,131,297	4,981,118
1889	5,034,944	5,495,132	4,344,194	4,697,240	4,692,172	5,234,919	6,101,724	5,533,936	5,671,520	4,340,478	4,266,827	4,560,882	4,633,165
1890	6,346,284	6,049,030	5,668,225	5,292,180	5,530,909	6,076,131	6,742,737	6,460,251	6,179,573	5,380,569	5,074,790	5,823,698	5,737,536
1891	5,911,281	6,614,450	6,083,591	5,340,879	5,241,053	6,371,317	6,742,737	6,460,251	6,336,374	6,290,239	5,613,792	5,899,565	5,919,692
1892	8,659,870	8,888,586	6,998,144	6,044,919	5,910,870	6,915,305	7,976,530	6,776,621	6,194,701	6,415,510	5,990,053	7,325,056	6,816,943
1893	7,268,744	7,817,600	6,580,717	6,034,913	6,452,212	6,935,305	7,104,453	6,571,031	6,190,377	5,821,950	5,909,004	6,550,504	6,568,170
1894	8,347,435	8,318,300	6,469,630	6,034,913	6,452,212	7,033,327	7,032,587	7,343,416	6,197,896	6,074,267	6,249,076	6,622,092	7,119,614
1895	7,422,486	7,050,337	6,498,264	6,187,508	6,401,053	6,296,706	6,885,239	6,353,758	6,348,176	5,970,660	5,956,262	6,814,985	6,933,308
1896	8,347,435	7,244,795	6,802,698	6,202,828	6,395,113	8,664,229	7,196,128	7,343,416	6,743,119	6,300,615	6,499,027	6,898,918	6,924,864
1897	7,417,719	8,114,248	6,803,182	6,554,963	6,551,731	8,508,104	8,696,110	7,196,128	7,002,017	7,037,015	6,797,952	6,858,218	7,286,205
1898	7,511,163	8,127,419	8,024,115	7,665,888	7,734,911	8,037,993	8,696,110	8,268,526	8,138,836	7,386,207	7,292,997	7,884,543	7,593,356
1899	8,266,601	9,055,112	8,260,895	7,980,172	7,980,172	7,980,172	8,037,993	7,980,172	7,980,172	7,980,172	7,980,172	7,980,172	7,980,172
1900	7,511,163	8,127,419	8,024,115	7,665,888	7,734,911	8,037,993	8,696,110	8,268,526	8,138,836	7,386,207	7,292,997	7,884,543	7,593,356
1901	8,266,601	9,055,112	8,260,895	7,980,172	7,980,172	7,980,172	8,037,993	7,980,172	7,980,172	7,980,172	7,980,172	7,980,172	7,980,172
1902	6,160,966	6,054,616	5,115,198	5,147,423	5,581,932	5,124,402	5,576,795	5,063,104	4,935,028	4,809,428	4,771,831	5,127,584	5,229,325
1903	6,655,270	7,188,622	5,554,904	4,791,851	5,220,707	5,562,331	5,576,795	5,136,152	5,417,024	4,940,485	4,580,887	5,257,670	5,485,323
1904	5,777,996	6,857,608	5,525,104	5,316,825	5,283,217	5,152,313	5,555,262	5,819,160	5,025,355	5,447,880	4,983,105	5,034,701	5,474,202

SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1905.

In form recommended by the New England Water Works
Association.

LOWELL WATER WORKS.

LOWELL, MIDDLESEX COUNTY, MASSACHUSETTS.

GENERAL STATISTICS.

Population by census of 1905, 94,889.

Date of construction, 1870 to 1873.

Date of construction, High Service, 1881.

Date of construction, Driven Wells, 1893 to 1903.

By whom owned: The City of Lowell.

Source of supply: Two hundred ten (210) driven wells in
the valley of River Meadow Brook, and three hundred
forty-five (345) driven wells at Pawtucket Boulevard.

Mode of supply: Pumping to reservoir and pumping direct.

PUMPING STATISTICS.

1. Builders of Pumping Machinery.

AT WEST SIXTH STREET STATION.

One engine, capacity 5,000,000 gallons in 24 hours, Henry
G. Morris.One engine, capacity 5,000,000 gallons in 24 hours, Henry
R. Worthington.

One engine, capacity 10,000,000 gallons in 24 hours,
Henry R. Worthington.

One engine, capacity 500,000 gallons in 24 hours, Henry
R. Worthington.

AT COOK WELLS STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours, The
Deane Steam Pump Co.

One engine, capacity 3,000,000 gallons in 24 hours, The
Deane Steam Pump Co.

AT LOWER BOULEVARD STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours,
Knowles Steam Pump Works.

One engine, capacity 3,000,000 gallons in 24 hours,
Knowles Steam Pump Works.

One engine, capacity 3,000,000 gallons in 24 hours,
Knowles Steam Pump Works.

AT UPPER BOULEVARD STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours,
Henry R. Worthington.

One engine, capacity 3,000,000 gallons in 24 hours,
Henry R. Worthington.

2. Description of fuel used:
 - a. Kind, bituminous.
 - b. Brand of coal—Sonman, New River and Pocahontas.
 - c. Average price of coal per gross ton delivered \$5.088+
 - d. Percentage of ash.
 - e. Wood, price per cord.
3. Coal consumed for the year, 8,347,769 pounds.
(low service, West Sixth Street Station, 3,944,460 pounds).

4. (Pounds of wood) $\div 3$ = equivalent amount of coal = 2,400 West Sixth Street Station.
5. Total equivalent coal consumed for the year = (3) + (4), 8,350,169 pounds. (Low service, West Sixth Street Station, 3,946,860 pounds).
6. Total pumpage for the year, 1,998,929,076 gallons.
7. Average static head against which pumps work, 156.20 feet, West sixth Street Station.
8. Average dynamic head against which pumps work, 164.42 feet, West Sixth Street Station.
9. Number of gallons pumped per pound of equivalent coal (5), 239. (Low Service, West Sixth Street Station, 474.
10. Duty = $\frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}} =$
65,036,213. West Sixth Street Station, Low Service.
Cost of pumping figured on pumping station expenses, viz: \$38,976.56.
11. Per million gallons pumped, \$19.50. Low Service.
12. Per million gallons raised one foot (dynamic), \$0.1156+,
Low Service, West Sixth Street Station.

FINANCIAL STATISTICS.

RECEIPTS		EXPENDITURES	
Balance brought forward:		Water Works Maintenance	
(a) From ordinary (maintenance)		A A. Operation (management and repairs).....	\$ 98,455 26
Receipts.....	\$ 18,835 32	C C. Total maintenance.....	\$ 98,455 26
Total.....	\$ 18,835 32	D D. Interest on bonds.....	48,752 60
		(C C + D D).....	147,207 86
From Water Rates		E E. Payment of bonds.....	16,600 00
A. Fixture rates.....	33,877 08	F F. Sinking fund.....	17,800 00
B. Meter rates.....	150,262 74		
C. Total from Consumers.....	184,139 82	Water Works Construction	
F. For street watering.....	1,500 00	G G. Extension of mains.....	9,693 59
G. For Public buildings.....	5,500 00	H H. Extension of Services....	4,519 49
J. Total from municipal dep'ts.	7,000 00	J J. Special.....	591 02
K. From tax levy.....	17,800 00	K K. Total Construction.....	14,804 10
M. From other sources.....	11,322 55	L L. Unclassified Expenses....	10,893 91
		M M. Balance	
		(a a) Ordinary.	31,791 82
N. Total.....	\$239,097 69	Total balance.....	31,791 82
		N. Total.....	\$239,097 69

Disposition of balance carried to account of 1906.

O. Net cost of works to date.....	\$3,011,206 15
P. Bonded debt at date.	1,075,000 00
Q. Value of sinking fund at date.....	437,885 13
R. Average rate of interest, four per cent.	

STATISTICS OF CONSUMPTION OF WATER.

1. Estimated total population at date, 94,889.
2. Estimated population on lines of pipe. (Estimated total population used).
3. Estimated population supplied. (Estimated total population used).
4. Total consumption for the year, 1,998,929,076 gallons.
5. Passed through meters, 801,401,280 gallons.
6. Percentage of Consumption metered, 40.
7. Average daily consumption, 5,474,202 gallons.
8. Gallons per day to each inhabitant, 57 69-100.
9. Gallons per day to each consumer, 57 69-100 nearly.
10. Gallons per day to each tap, 478.
11. Cost of supplying water, per million gallons, figured on total maintenance (item C. C.), \$49.25
12. Total cost of supplying water, per million gallons, figured on total maintenance+interest on bonds, \$73.64.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1. Kind of pipe, cast iron.
2. Sizes, from 4 inch to 30 inch.
3. Extended 8520 feet during year.
5. Total now in use, 135.28 miles.
8. Length of pipe less than 4 inches diameter, 2 miles, more or less.
9. Number of hydrants added during the year (public and private), 17.
10. Number of hydrants (public and private) now in use, 1229.
11. Number of stop gates added during the year, 28.
12. Number of stop gates now in use, 1359.

13. Number of stop gates smaller than 4 inches, 25.
14. Number of blow offs, 34.
15. Range of pressure on mains, 17 lbs. to 72 lbs., low service.

SERVICES.

16. Kind of pipe, lead, lead-lined iron, iron, and tin-lined iron.
17. Sizes, $\frac{5}{8}$ " to 2".
18. Extended, 6053 feet.
20. Total now in use, 85.55 miles.
21. Number of service taps added during the year, 166.
22. Number now in use, 11,451.
23. Average length of service, 36.77 feet.
24. Average cost of service for the year, \$27.22.
25. Number of meters added, 381.
26. Number now in use, 7889.
27. Percentage of services metered, 68.8.
28. Percentage of receipts from metered water ($B \div C$), 81.6.

The State Board of Health has made analyses of water each month from the Merrimack River (for record only), wells at Pawtucket Boulevard, and Low Service Reservoir, a record of which is annexed.

Respectfully submitted,

GEORGE BOWERS,

City Engineer.

COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH.
LOWELL WATER ANALYSIS.—Merrimack River, Above Dam. (Parts in 100,000.)

No.	Date of		Appearance		Odor		Residue on Evaporation			Ammonia				Chlorine	Nitrogen as		Hardness	Iron	Oxygen Consumed	
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Total	In Solution		In Suspension	Nitrates				Nitrites
52,837	Jan. 27	1905 28	slight	cons.	.38	distinctly unpleasant	decidedly unpleasant	4.65	1.75	2.90	.0114	.0228	.0204	.0024	.34	.0060	.0003	1.4	....	.80
53,080	March 1	2	decided	slight	.27	distinctly tarry & turb.	unpleasant and musty	5.20	2.10	3.10	.0138	.0202	.0144	.0058	.36	.0050	.0003	1.6	....	.78
53,866	March 29	30	decided	cons.	.42	faintly unpleasant	distinctly unpleasant	3.15	1.30	1.85	.0048	.0272	.0132	.0140	.11	.0070	.0001	0.6	....	.56
	April 25	26	slight	slight	.16	v. faintly unpleasant	faintly unpleasant	3.35	1.35	2.00	.0030	.0156	.0140	.0016	.13	.0070	.0000	0.6	....	.57
54,479	June 2	3	slight	slight	.35	dist. veg. & faintly unple't	dist. veg. & faintly unple't	3.80	1.85	1.95	.0080	.0170	.0148	.0022	.21	.0040	.0001	0.8	....	.56
54,963	June 27	28	v. slight	cons.	.47	faintly unpleasant	faintly unpleasant	3.95	1.95	2.00	.0124	.0200	.0184	.0016	.19	.0040	.0003	0.8	....	.74
55,620	July 26	27	slight	cons.	.34	faintly unpleasant	faintly unpleasant	4.50	1.90	2.60	.0198	.0182	.0136	.0046	.28	.0050	.0003	1.0	....	.60
56,931	Aug. 29	30	slight	cons.	.38	faintly vegetable	faintly unpleasant	4.65	2.00	2.65	.0112	.0206	.0170	.0036	.29	.0040	.0003	1.3	....	.79
56,984	Sept. 26	27	v. slight	slight	.55	faintly unpleasant	faintly unpleasant	4.00	1.90	2.10	.0068	.0196	.0164	.0032	.18	.0030	.0002	1.1	....	.76
57,806	Nov. 1	2	slight	cons.	.35	faintly unpleasant	distinctly unpleasant	4.45	2.05	2.40	.0084	.0192	.0136	.0056	.31	.0030	.0001	1.5	....	.71
58,373	Nov. 28	29	v. slight	slight stringy	.33	faintly tarry	distinctly unpleasant	4.25	1.90	2.35	.0088	.0236	.0168	.0068	.23	.0040	.0003	1.1	....	.68
58,792	Dec. 26	27	slight	slight	.36	faintly unpleasant; tarry	distinctly unpleasant; tarry	3.95	1.95	2.00	.0080	.0162	.0138	.0024	.21	.0060	.0001	1.3	....	.72

COMMONWEALTH OF MASSACHUSETTS—STATE BOARD OF HEALTH.
LOWELL WATER ANALYSIS.—Boulevard Wells. (Parts in 100,000.)

No.	Date of		Appearance			Odor		Residue on Evaporation			Ammonia				Nitrogen as		Hardness	Iron	Oxygen Consumed	
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Total	In solution	In suspension	Nitrates	Nitrites				
52,817	Jan., 1905	23 24	v. slight	slight iron	.15	none	none	4.40	...	...	.0070	.0034	...	...	.31	.0130	.0000	2.2	.0800	.11
53,081	March	1 2	v. slight	slight	.03	none	none	5.00	...	...	.0060	.0036	...	...	.33	.0180	.0000	2.2	.0750	.11
53,500	March	29 30	v. slight	v. slight	.08	none	none	4.70	...	...	.0044	.0032	...	...	.37	.0150	.0002	2.0	.0500	.06
53,867	April	26 27	v. slight iron	slight iron	.11	none	none	4.10	...	...	.0048	.0042	...	...	.26	.0120	.0001	1.8	.0500	.08
54,480	June	2 3	v. slight iron	cons. iron	.17	none	none	4.10	...	...	.0052	.0040	...	...	.24	.0140	.0001	1.7	.0500	.08
54,964	June	27 28	v. slight	slight	fil. .12	none	none	4.00	...	...	.0040	.0038	...	...	.23	.0080	.0000	1.6	.0440	.14
55,621	July	26 27	v. slight	v. slight	.15	none	none	4.00	...	...	.0044	.0038	...	...	.24	.0110	.0000	1.4	.0500	.09
56,932	Aug.	29 30	none	v. slight	.03	none	none	4.50	...	...	.0010	.0036	...	...	.27	.0080	.0000	1.6	.0070	.09*
56,985	Sept.	26 27	none	v. slight	.00	none	none	4.50	...	...	.0010	.0044	...	...	.24	.0080	.0000	1.4	.0100	.08
57,807	Nov.	1 2	none	slight	.02	none	none	4.30	...	...	.0020	.0062	...	...	.23	.0100	.0000	2.0	.0220	.08
58,374	Nov.	28 29	none	v. slight	.00	none	none	5.40	...	...	.0028	.0040	...	...	.29	.0180	.0000	1.4	.0040	.05
58,793	Dec.	26 27	slight	cons.	.18	none	none	4.10	...	...	.0082	.0044	...	...	.26	.0070	.0001	1.6	.0750	12

*Upper Boulevard.

COMMONWEALTH OF MASSACHUSETTS—STATE BOARD OF HEALTH.
LOWELL WATER ANALYSIS—Reservoir. Parts in 100,000.

No.	Date of		Appearance			Odor		Residue on Evaporation			Ammonia				Chlorine		Nitrogen as		Hardness	Iron	Oxygen Consumed
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Total	In Solution	In Suspension			Nitrates	Nitrites			
53,082	March, 1905 1 2		v. slight	slight	.06	none	none	5.00	.....	.....	.0040	.0042	.....	.....	.32	.0200	.0001	.0001	2.1	.0330	.10
53,501	March 29 30		v. slight	v. slight	.02	none	none	5.10	.....	.....	.0032	.0036	.....	.....	.38	.0270	.0002	.0002	2.2	.0250	.10
53,868	April 26 27		slight milky	slight	.09	none	none	4.80	.....	.....	.0028	.0060	.....	.....	.31	.0200	.0001	.0001	2.1	.0250	.11
54,481	June 2 3		v. slight	v. slight	.08	none	none	4.10	.....	.....	.0010	.0042	.....	.....	.26	.0200	.0001	.0001	1.7	.0130	.10
54,965	June 27 28		v. slight	slight	.08 fil.	none	none	4.60	.....	.....	.0010	.0098	.....	.....	.26	.0140	.0000	.0000	1.6	.0150	.21
55,622	July 26 27		v. slight	v. slight	.11	none	none	4.30	.....	.....	.0010	.0048	.....	.....	.24	.0150	.0000	.0000	1.4	.0200	.12
56,933	Aug. 29 30		v. slight	v. slight	.07	none	none	4.70	.....	.....	.0008	.0062	.....	.....	.28	.0110	.0000	.0000	1.7	.0130	.15
56,986	Sept. 26 27		v. slight	v. slight	.07	none	none	5.00	.....	.....	.0006	.0090	.....	.....	.29	.0130	.0001	.0001	1.7	.0250	.12
57,808	Nov. 2 1		v. slight	slight	.12	none	none	4.70	.....	.....	.0010	.0074	.....	.....	.25	.0200	.0001	.0001	1.8	.0220	.09
58,375	Nov. 28 29		none	slight	.02	none	none	5.60	.....	.....	.0028	.0078	.....	.....	.31	.0160	.0000	.0000	1.7	.0130	.10
58,794	Dec. 26 27		slight	slight	.10	none	none	4.50	.....	.....	.0040	.0080	.....	.....	.27	.0140	.0002	.0002	1.6	.0500	.14

Property of Lowell Water Board.

PROPERTY AND TOOLS AT PUMPING STATION NO. 1.

One high duty Worthington engine, 1 low duty Worthington engine, 1 Worthington engine for high service, 1 Morris engine, 11 wrenches for high duty engine, 11 wrenches for low duty engine, 12 wrenches for Morris engine, 1 electric engine and switch board, 16 wrenches for electric engine, 1 set dynamo wrenches, 1 hand switchboard for lights, 1 jacket pump, 100 brass springs for Worthington engine, 1 telephone, 1 telemeter, 1 outer globe for arc light, 1 inner globe, 1 set drawing for high duty engine, 1 compensating cylinder for high duty engine, 7 steel springs for Morris engine, 2 feed pumps, 1 set Chesterton packing tools, 1 barometer, 3 thermometers, 2 indicators, 1 clock, 1 oil filter, 1 oil cabinet, 1 ledger, 1 desk, 1 log book, 1 oil can, 6 tin oil cans, 4 one gallon oil cans, 1 copper oil can, 10 gallons Magnet engine oil, 4 gallons valvoliene cylinder oil, 4 gallons Eagleine cylinder oil, 2 mops, 10 lbs. leather, 1-2 gallon Anchor brand metal polish, 1 table, 1 garden rake, 1 lawn mower, 12 assorted files, 2 glands, 1 window brush, 1 claw hammer, 2 iron pails, 1 centre punch, 3 five gallon oil cans, 4 iron oil cans, 5 brass oil cans and stand, 1 old oiler, 4 Keystone oil cups, 5 Dryfus self-oilers, 5 assorted oilers, 3 oil dishes, 6 cold chisels, 45 assorted valve plates, 60 assorted brass springs, 16 5 in. old rubber valves, 1 sickle whetstone, 3 old pressure valves, 2 steel keys for pumps, 1 2-in. Jenkins valve, 9 $\frac{1}{2}$ x12-in. carbons, 2 hand ratchets for drills, 3 steel wedges, 5 steel punches, 1 small pinch

bar, large pinch bar, 2 hand brushes, 2 floor brushes, 20 machine sets, 1 waste can, 1 dust pan, 2 lanterns, 1 tag rope, 1 small block and falls, 2 extension lamps, 1 level, 1 24-in. flange $\frac{1}{4}$ turn, 1 24-in. monkey wrench, 1 18-in., 2 14-in. 1 12-in. and 1 8-in., 2 draw screws, 6 ratchet drills, 2 screw drivers, 1 hack saw, 2 spanners, 1 hammer, 2 pairs steps, 1 machinist hammer, 1 20-ft. ladder, 40 $1 \times 1\frac{3}{4}$ iron bolts, 2 clothes closets, 2 tool closets, 1 desk, 1 pair 6-in. clamps, 1 brass hydrant, 1 oil press, 1 hose rack, 1 length of hose, 2 large extension lamps, 1 square pointed shovel, 1 set differential blocks, 1 hoe, 2 heavy chains, 1 3-ft. wooden horse, 1 bit, 1 gate wrench, 1 pair rubber boots, $\frac{1}{2}$ bbl. of soap, 1 pair skids, 7 ft. galvanized iron pipe, 2 14-in. Stillson wrenches, 1 8-in. and 2 6-in., 1 copper pump, 15 socket wrenches, 60 assorted brass springs, 20 eyebolts, 35 $1\frac{1}{4} \times 5$ -in. bolts, 1 2×3 -in. socket wrench, 3 pipe taps, 12 drills, 1 L. W. W. stamp, 1 steel square, 3 bit stocks, 6 lbs. Chesterton gum core packing, 22 lbs. Eagleine ring packing, 3 lbs. flax packing 20 lbs. Garlock ring packing, 3 lbs. asbestos valve packing.

BOILER ROOM.

Four boilers, 2 Foster superheaters, 300 tons of coal, 400 lbs. coke, ice chest, 2 boiler feed pumps, 2 sets fire tools, 100 lbs. asbestos, 50 ft. $\frac{3}{4}$ -in. rubber hose, 1 bench, 1 broom, 2 coal hammers, 2 coal scoops, 30 ft. heavy steam hose, 1 floor brush, 1 hose rack, 1 length fire hose, 1 nozzle, 1 clock, 1 desk, 2 platform scales, 1 30-ft. wagon scales, 2 chairs, 1 dipper, 2 coal shovels, 1 clothes closet, 1 electric lamp, 1 brass dutchman, 3 nozzles, 2 12-in. monkey wrenches, 1 12-in. Stillson wrench, 1 S wrench, 1 spring oil can, 1 14-ft. ladder, and 1 21-ft., 2 step ladders, 2 charging cars, $\frac{1}{2}$ barrel boiler compound, $\frac{1}{4}$ barrel whitewash, $\frac{1}{2}$ gallon Superba polish, 5 lengths of fire hose, 6 sections for fire grates, 1 side bar, 85 grates, 10 oil barrels, 1 gate wrench, 1 tube cleaner, 1 hoe, 2 iron wheel barrows, 1 set blocks and falls.

PROPERTY AND TOOLS AT PUMPING
STATION NO. 2.

Two Dean steam pumps, 1 boiler feed pump, 3 boilers, 1 condenser, 1 air pump, 1 watertrap, 2 8-in. air chambers, 1 pressure gauges, 3 vacuum gauges 2 $\frac{3}{4}$ -in. gauge glasses, 1 $\frac{1}{2}$ -in. gauge glass, 30 gallons cylinder oil, 6 glass oil cups, 3 50-gallon oil tanks, 12 gallons kerosene oil, 2 gallons cylinder oil, 1 brass oil can, 4 old oil cans, 4 drip pans, 1 24-in. monkey wrench, 1 6-in., 1 12-in., 1 16-in. Stillson wrenches, 1 12-in., 2 small wrenches, 8 wrenches for Dean pumps, 2 S wrenches, 3 open end wrenches, 2 spanners wrenches, 1 fork wrench, 1 flush hydrant wrench, 2 24-in. wrenches for 24-in. gate, 1 tee wrench, 1 heavy iron gate wrench 3 ft. long. 4 street gate wrenches, 1 tube scraper, 7 socket wrenches, 1 iron wheelbarrow, 1 wooden wheelbarrow, 2 cold chisels, 2 files, 1 coal scoop, 1 diamond point, 1 set fire irons, 2 nozzles, 30 ft. 1-in steam hose, 50 ft. 2 $\frac{1}{2}$ -in. hose, 2 hose racks, 50 ft. $\frac{3}{4}$ -in rubber hose, 2 long handle coal scoops, 1 bench and vice, 1 Reed pipe bench and vice, 1 24-ft. ladder, 1 20-ft., 1 15-ft., 1 10-ft., 1 pair steps, 3 lanterns, 6 hand hole plates, 2 mops, 2 brooms, 3 Rochester lamps, 5 lamp chimneys, 2 hand brushes, 1 ice chisel, 1 30-ft. Howe scales, 1 small platform scales, 1 desk and 4 chair, 1 stool, 1 book cabinet, 1 ledger, 1 L. W. W. gate plan, 1 plan H. W. Morris boilers, 2 wooden horses, 72 old rubber valves, 4 lbs. cop waste, 2 iron pails, 2 lbs. mop waste, 1 waste can, 1 steel punch, 10 eye bolts, 1 stone wedge, 1 drill, 1 nail set, 1 prick punch, 2 iron rakes, 2 clothes closets, 1 dipper, 2 garden hoes, 1 hand saw, 1 pair tongs, 1 machinist hammer, 1 striking hammer, 1 claw hammer, 1 copper bar 6 in. long, 1 copper hammer, 2 tool closets, 1 wire mat, 35 lbs. scrap rubber, 1 buck saw, 6 lbs 1x $\frac{7}{8}$ -in. Garlock packing, 5 lbs. $\frac{5}{8}$ -in., 10 lbs. sheet rubber, 5 lbs. $\frac{3}{4}$ -in. square packing, 2 bull rings for Dean pump, 4 lbs. asbestos, 2 hand brushes, $\frac{1}{2}$ lb. plumbago, $\frac{1}{2}$ gallon Superba polish, 1 ton egg coal, 75 tons soft coal, 1

buck saw, 1 saw horse, 2 stoves, 1 ice chisel, 6 lbs. nails, 1 mortar tub, 21 small shutters, 16 shutters and bars, 15 yards felting, 4 center bars, 13 fire bars, 1 section bar, 5 lbs. clay, 24 ft. spruce plank, 2 4-in. joist 16 ft. long; $\frac{3}{4}$ bbl. lime, 6 6-in. sleeves, 1 old steam chest, 1 qt. lard oil, 2 8-in. air chambers, 3 lbs. yarn, 1 marine pump, 3 lengths 4-in. hose, 18 6-in. gaskets, 1 watering can, 1 1-16 bend 6-in. flange, 1 12-in. flange, 1 blow-off wrench, 1 small tin lamp, 4 manhole gaskets, 2 lamp wicks, 4 hand hole gaskets, 1 lb. oxalic acid, 1 heavy handle for gate wrench, 1 2-in. nipple, 3 large socket wrenches, 2 pinch bars, 1 1-gallon oil can, 3 drip pans, 15 socket wrenches various sizes, 30 2-in. brass springs, 75 4-in. rubber valves, 8 lbs. $1\frac{1}{4} \times 1$ -in. Garlock ring packing, 8 lbs. $1 \times \frac{3}{4}$ -in., 2 lbs. $\frac{1}{2} \times \frac{7}{8}$ -in., 1 lb. $\frac{3}{4}$ -in. Garlock square packing, $1\frac{1}{2}$ lbs. $\frac{7}{8}$ sq., 1 lb. $\frac{3}{4} \times \frac{1}{4}$ -in., 1 lb. ton ring packing, $\frac{1}{2}$ lb. $\frac{1}{2} \times \frac{1}{4}$ -in., 5 lbs. flax packing, 2 lbs. tal-low, 1 3-in. flange, 14 eyebolts, 2 $\frac{1}{2}$ -in. brass king bolts, 3 1-in., 47 brass spindles for pumps, 20 lag screws, 19 brass plates, 6 12-in. steel bands, 1 tunnel, 1 axe, 12 ft. 3-in. asbestos pipe covering, 10 ft. 2-in., 1 length 24-in. pipe, 24 ft. 20-in., 4 ft. 10-in., 1 30-in. 1-16 bend, 2 20-ft. lengths 20-in. flange pipe, 20 ft. 16-in., 9 lengths 10-in., 11 ft 12-in., 10 ft. 8-in., 4 lengths 6-in., 17 ft. 10-in. wrought iron pipe, 1 boiler tube cleaner, 1 striking hammer, 1 $\frac{1}{4}$ -in. valve.

PROPERTY AND TOOLS AT PUMPING STATION NO. 4.

LOWER STATION.

Three Knowles steam pumps, 2 boiler feed pumps, 2 air pumps, 1 electric engine, 4 boilers, 1 condenser, 1 heater, 3 50-gallon oil tanks, 20 gallons cyclinder oil, 20 gallons engine oil, 6 gallons kerosene oil, 1 oil filler, 1 multiple oiler, 3 oil cans, 6 S wrenches, 1 spring oil can, 1 gauge glass cutter, 1

24-in. monkey wrench, 1 12-in., 1 10-in., 1 6-in., 1 24-in. Stillson wrench, 2 30-in., 2 14-in., 4 new brass valve studs, 30 brass springs for pumps, 2 lbs. Jenkins sheet packing, 50 $\frac{1}{2}$ x 12-in. carbons, 1 motor and switch board, 1 $\frac{3}{4}$ -in. seat for Jenkins valve, 2 tunnels, 1 incandescent lamp extension, 1 oil tray and stand, 1 floor brush, 1 dust pan, 26 pump wrenches, 4 spanner wrenches, 6 brass rods for gauge glasses, 8 packing tools, 16 socket wrenches, $\frac{1}{2}$ lb. $\frac{1}{2}$ -in. gasket tubing, 1 lb. $\frac{1}{2}$ -in. Chesterton packing, $\frac{1}{2}$ lb. $2 \times \frac{3}{4}$ -in. Garlock packing, 1 lb. $1 \times \frac{7}{8}$ -in., 2 lbs. $2 \times \frac{1}{4}$ -in., 1 lb. $\frac{1}{2} \times \frac{3}{4}$ -in., $1\frac{1}{2}$ lbs. $1 \times \frac{7}{8}$ -in., 1 lb. spiral packing, $\frac{1}{2}$ lb. $1 \times \frac{1}{4}$ -in. Hart ring packing, 1 lb. $1\frac{1}{8} \times \frac{3}{4}$ -in., $\frac{1}{2}$ lb. $2 \times \frac{3}{4}$ -in. Allen monitor packing, $1\frac{1}{4}$ lbs. white spring packing, 4 lbs. $\frac{1}{2}$ -in. Garlock ring packing, 6 lbs. 1-in., 25 lbs. scrap rubber, 11 $\frac{3}{4}$ -in. gauge glasses, 3 $\frac{1}{2}$ -in., 124 rubber valves, 12 $\frac{5}{8}$ -in. stud bolts, 12 fuses for electric lights, 4 assorted bits, 8 copper connections for switch board, 1 lamp chimney, 3 $2\frac{1}{2}$ -in. vacuum gauges, 1 8-in., 1 10-in., 28 1-in. rubber valves, 3 pairs rubber boots, 1 steam tap, 3 1-in. iron plugs, 4 valve rods, 1 ratchet drill, 4 $\frac{1}{4}$ -in. bushings, 1 pair pliers, 4 pairs snips, 1 plumb bob, 1 $1\frac{1}{4}$ -in. tap, 2 $\frac{7}{8}$ -in. drills, 2 lbs. solder, 5 lbs. metallic packing, 2 telephones and extension bells, 3 lbs. asbestos rope packing, 15 lbs. $\frac{7}{8}$ square pump packing, 1 lb. flax, 1 mop, 1 clock, 2 sand screens, 1 cross cut saw, 2 hand saws, 1 sod cutter, 20 feet 1-in. rope, 6 iron pails, 6 drip pans, 1 new section for fire-box, 3 lanterns, 2 well-driving machines complete, 1 solder iron, 7 old B. & H. lamps, 1 desk, 3 chairs, 1 ledger, 2 coal scoops, 1 coal hammer, 1 axe, 18 feet 6x6-in. lumber, 10 clamps for well-driving machine, 1 anvil, 2 pairs tongs, 1 Reed pipe vise and bench, 55 feet cable rope, 1 5-ft. bench and vise, 1 platform scales, 1 30-ft. hay scales, 1 blacksmith forge, 3 1-gal. oil cans, 20 feet $\frac{3}{4}$ -in. rubber hose, 32 feet 1-in. old rubber hose, 1 prick punch, 1 Walworth die stock and set of dies, 1 Armstrong die stock and set of dies, 2 pipe-cutters, 1 chain tongs, 2 pipe tongs, 1 steel scraper, 3 steel wedges, 2 lawn mowers, 1 grindstone, 2 machinist hammers, 1 gravel screen,

1 boat, 4 oars, 1 scythe and snath, 4 hangers for lamps, 1 barrel asbestos, 21 ft. 1-in. asbestos pipe covering, 15 lbs. old brass springs, 2 round-pointed shovels, 2 scythes, 1 sickle, 1 iron rake, 1 square-pointed shovel, 2 sprinkling cans, 3 2-in. old brass valves, 1 wooden rake, 3 1-in. old valves, 1 $\frac{3}{4}$ -in., 1 $\frac{1}{2}$ -in., 6 $\frac{1}{4}$ -in. brass nuts, 1 $1\frac{3}{4}$ -in. brass tee, 1 $\frac{1}{2}$ -in. iron tee, 2 3-in. iron nipples, 2 2-in., 1 $1\frac{1}{2}$ -in., 4 1-in., 8 R. & L. iron couplings, 1 1-in. iron crosses, 1 $1\frac{1}{2}$ -in. tee, 6 2-in. couplings, 1 $\frac{3}{4}$ -inch, 1 $\frac{3}{4}\times\frac{1}{2}$ -in. tee, 1 $\frac{1}{2}$ -in., 2 1-in., 1 1-in. elbow, 2 $1\frac{1}{2}$ -in., 1 $1\frac{1}{4}\times 1$ -in., 1 $1\frac{1}{4}$ -in. union, 2 1-in. crosses, 2 1-in. nipples, 1 2×1 -in. bushings, 1 $1\frac{1}{2}\times\frac{3}{4}$ -in., 1 $1\frac{1}{2}\times\frac{1}{2}$ -in., 1 $2\frac{1}{2}\times 1$ -in., 1 $1\frac{1}{2}\times 1$ -in., 1 3×4 -in., 1 2-in. plug, 2 3-in. nipples, 1 $2\frac{1}{2}$ -in., 6 2-in., 3 $1\frac{1}{2}$ -in., 2 1-in., 1 1-in. check valve, 1 $1\frac{1}{2}$ in. 45-deg. elbow, 1 barrel boiler compound, 1 pitcher pumps, 2 gate wrenches, 1 tee wrench, 2 iron wheelbarrows, 2 wooden wheelbarrows, 1 long-handle shovel, 6 plungers and 2 valves for Douglas pumps, 1 stone hand-barrow- 600 tons soft coal, 7 tons hay, 1 hay-fork, 3 lengths 8-in. cast iron pipe, 25 ft. 8-in. wrought-iron pipe, 400 ft. $2\frac{1}{2}$ -in. well pipe, 1200 bricks, 45 $2\frac{1}{2}$ -in. nipples 20 inches long, 12 $2\frac{1}{2}$ -in. couplings, 2 new lamp-shades, 50 ft. $\frac{3}{4}$ -in. rubber hose, 20 ft. 1-inch steam hose, 9 valve-plates, 2 brooms, 1 cord of wood, 1 blacksmith's hammer, 1 cutter, 3 old lanterns, 12-ft. ladder, 1 6-ft. stepladder, 1 5-ft., 1 4-ft., 1 thermometer.

CUSHING BARN.

One portable engine and boiler, 1 set of fire-tools, 1 large wooden gate, 1 wooden horse, 1 grindstone, 1 horse rake, 2 2-horse mowing machines, 1 large stone cover for well, 1 centrifugal pump, 25 tons hay, 40 ft. 14×10 -in. old timbers, 20 ft. 8×8 -in., 46 ft. 10×8 -in., 10 ft. 8×6 -in., 20 ft. 3-in., 450 ft. 4×4 -in., in pieces, 12 hay forks, 9 hay rakes, 6 scythes and snaths, 2 stone drags, 1 hand-saw, 2 axes, 2 axe-handles, 1 striking hammer, 2 knives for mowing machine, 1 8-ft. ladder, 1 cellar-window frame and sash, 1 boundary stone, 10 cords of wood.

UPPER STATION.

Two Worthington steam pumps, 1 air pump, 2 boiler feed pumps, 2 boilers, 1 plan of filter gallery conduit and pumping station, 1 plan of boulevard wells, 1 hose rack, 1 nozzle, 1 length fire hose, 1 gate plan L. W. W., 1 12-in. monkey wrench, 1 10-in., 1 16-in., 1 30-in. Stillson wrench, 6 S wrenches, 4 open end wrenches, 7 socket wrenches, 1 offset wrench, 3 valve wrenches, 1 $\frac{7}{8}$ side wrench, 2 5-gallon oil cans, 1 2-gallon, 6 1-gallon, 7 large drip pans, 4 small drip pans, 2 coal scoops, 4 packing hooks, 50 ft. $\frac{3}{4}$ -in. rubber hose, 12 brass springs, 1 50-gallon oil tank, 3 chairs, 2 tunnels, 2 gallons cylinder oil, 2 brass oil trays, 1 18-ft. ladder, 1 11-ft., 1 7-ft., 1 lantern, 2 lantern globes, 1 dust pan, 2 brooms, 1 coal barrow, 2 cold chisels, 1 step ladder, 6 iron pails, 4 lbs. rubber packing, 6 lbs. 1-in. Knowlton packing, 2 lbs. 1-in., $2\frac{1}{2}$ lbs. $\frac{5}{8} \times \frac{1}{2}$, $\frac{1}{2}$ lb. $\frac{1}{4}$ -in., 4 lbs. 1-in., Knowlton ring packing, 1 lb. 2×1 -in., $\frac{3}{4}$ lb. $4\frac{1}{2} \times 3$ -in., 7 $\frac{5}{8}$ -in. gauge glasses, 6 glass oil cups, 1 gauge glass cutter, 3 lbs. talow, 4 lbs. sulphur, 1 lb. flax, 8 new valve spindles, 2 old gauges, 2 old indicators, 20 lbs. bolts, nuts and washers, 4 files, 2 scrapers, 2 dippers, 4 lamp hangers, 5 lbs. cop waste, 16 $\frac{3}{4}$ -in. rubber washers, $1\frac{1}{2}$ ton soft coal, 1 qt. Superba polish, 2 wood horses, 4 brass oil cans, 4 pairs window shutters, 1 No. 6 square shovel, 1 hoe, 12 fire bricks, 1 platform scales, 1 grate wrench, 3 ft. $2\frac{1}{2}$ -in. wrought iron pipe, 4 ft. 2-in., 15 ft. $\frac{3}{4}$ -in., 2 lbs. Jenkins sheet packing, 8 2-in. brass springs, 1 $\frac{3}{4}$ -in. iron elbow, 1 thermometer, 1 manhole gasket, 1 hand hole gasket, 1 oil barrel.

PROPERTY AND TOOLS AT MACHINE SHOP HAMPSHIRE STREET.

One 10-ft. engine lathe, 1 7-ft., 1 5-ft. speed lathe, 1 6-in. brass finishing lathe, 1 6-in. pipe cutter, 1 upright drill, 1 emery wheel, 1 grind stone, 1 Howe platform scales, 1 Gow meter testing machine, 1 shaper, 2 solder furnaces, 2 independent chucks, 10 lathe dogs, 20 reamers, 10 twist drills, 8 flat drills, 42 turning drills, 10 steel arbors, 1 1½-in. machine drill, 1 1¼-in., 1 1-in., 2 meter reamers, 27 taps, 3 tapping machines, 1 hand vise, 2 Scotch drills, 4 bench vises, 44 tools for brass lathe, 15 cast iron chucks, 1 set hand chasers, 1 set broachers, 28 tools for brass work, 12 files, 3 soldering irons, 1 bit stock and set of bits, 1 belt punch, 1 set steel figures, 1 pair cut nippers, 1 6-in. Smith tapping machine, 3 gallons naphtha, 2 hack saws, 1 pair scissors, 1 pair snips, 1 saw set, 2 naphtha lamps, 1 L. W. W. stamp, 3 pairs steps, 1 pipe tap, 2 mops, 1 mirror, 2 clothes closets, 1 waste can, 1 ratchet stock and set of dies, 1 set washer cutters, 4 wrenches for meter work, 1 12-in. monkey wrench, 1 8-in., 8 lathe wrenches, 1 14-in. Stillson wrench, 1 Reed tapper for engine valves, $\frac{3}{4}$ gross cork packing for meters, 6 spring oil cans, $\frac{1}{4}$ gross $\frac{3}{8}$ -in. bolts, $\frac{1}{4}$ gross 3½x5-16-in. bolts, 1 nail puller, 2 nipple holders 1x¼-in., 1 switch board, 12 steel sets, 1 electric motor, 1 carpenter's plane, 1 clock, 50 lbs. bolts for hydrants, 17 assorted drills, 3 taps, 1 S wrench, 1 chisel, 1 dry tapping machine, 1 monkey wrench, 10-ft. chain for fountains, 1 reamer, 1 set chain falls, 2 clamps, 1 level, 2 lanterns, 1 brass dutchman, 1 4-in. stand pipe, 1 large Smith tapping machine, 1 marline spike, 1 tool box and set of tools for hydrants and gates, 1 pair rubber boots, 1 bench and vise, 1 dipper and tunnel for thawing out hydrants, 1 Lowrey hydrant wrench, 3 parts of hydrant tester, 4 Walworth die stock, 1 small Walworth die stock, 1 Armstrong die stock and set of dies, 1 large ratchet die stock, 1 small ratchet die stock, 2 2-in. pipe cutters, 2 ratchet pipe cutters, 6 dies various sizes.

CARPENTER SHOP.

One turning lathes and set of tools, 1 circular saw table, 5 saws, 1 jig saw, 1 buzz planer, 1 20-ft. carpenter's bench, 300 ft. northern pine lumber, 50 ft. black walnut sheathing, 50 ft white wood sheathing, 100 ft. hard wood flooring, 1 crow bar, 5-horse power electric motor, 100 lbs. 8d nails, 6 lbs. 8d iron nails, 75 lbs. 10d, 1 lb. 1 $\frac{1}{4}$ -in. brads, 2 lbs. 1-in. brads, 1 lb. $\frac{3}{4}$ -in., 1 $\frac{1}{2}$ gross 1 $\frac{1}{2}$ -in. wire screws, $\frac{1}{2}$ gross No. 20 brass screws, 1 gross No. 9, 1 $\frac{1}{4}$ -in. brass screws, $\frac{1}{2}$ gross $\frac{3}{8}$ -in., 1 gross No. 6, 1 gross knob washers, 1 10-ft. straight edge, 1 7-ft., $\frac{1}{2}$ doz. flush pulls, 2 dozen caulking hammer handles, 1 doz. striking hammer handles, $\frac{1}{2}$ doz. axe handles, 2 iron patterns for hydrant boxes, 2 for gate boxes, 6 saw files.

PATTERNS.

One cylinder for Morris engine, 1 grate for boilers, 1 gate box, 1 hydrant box, 1 section for grates, 1 apron for drinking fountains, 1 set packing for glands of pumps, 1 set grates for boilers at the Boulevard station, 1 set improved cellar cocks, 2 $\frac{3}{4}$ -in. hose connections, 1 1-in., 1 hydrant spindle, 1 cap for stand pipe in drinking fountain, 1 plumb bob, 1 set patterns for brass railings, 1 goose neck for fountains, 1 foot valve for high duty engine, 1 set for 1-in. sidewalk cocks, 1 set for 2-in. plugs, 1 wood and 2 brass patterns for cellar cocks, 2 wood patterns for heads of pumps, 1 wood pattern for machine wrench, 1 trap door, 1 packing box for pumps, 1 gland for high service engine, 2 plunger rods for pumps, 3 slide valves for Morris engine, 1 set of bushings 4 sizes, 1 set for high duty engine, 1 gate of patterns for $\frac{3}{4}$ -in. sidewalk cocks, 1 gate of 4 brass patterns for $\frac{3}{4}$ -in. plugs for sidewalk cocks, 1 gate of 4 brass patterns for cellar cocks, 1 gate of 4 brass patterns for tail pieces, 1 gate of 4 brass patterns for $\frac{3}{4}$ -in. nuts, 1 gate of brass patterns for $\frac{3}{4}$ -in washers, 1 gate of brass patterns for 1x $\frac{3}{4}$ -in couplings, 1 gate of 4 brass patterns for $\frac{3}{4}$ -in. thimbles, 1 pattern for 6-in. strainer, 2 patterns for rings for high service engine.

PROPERTY AT SUPERINTENDENT'S OFFICE HAMPSHIRE STREET.

One rolltop desk, 1 double desk, 1 large card cabinet, 1 small card cabinet, 5 chairs, 1 combination chair and step-ladder, 1 Howard clock, 1 cuspidore, 1 index map of main pipe line, 1 gate plan, 3 diagrams, 1 service book, 1 meter repair book, 1 Webster's dictionary, 19 12-in. files, 7 10-in. half round files, 1 dozen $\frac{3}{8}$ -in. belt lacing, 1 $\frac{3}{4}$ -in. twist drill, 54 small twist drills various sizes, 2 cases Morse twist drills, 24 hack saws, 4 doz. cutters, 2 L. W. W. stamps, 1 $1\frac{1}{4}$ -in. die, 2 1-in., 7 $\frac{3}{4}$ -in., 75 harness tubular rivets, 10 clips for $\frac{3}{4}$ -in. hose, 1 5-16 tap, 1 15-32, 1 8-32, 2 ink stands, 1 test guage, 2 dozen discs for Jenkins valves, 1 50-ft. tape line, 3 bill files, 1 package 8-oz. tacks, 1 acquirphone.

STABLE—HAMPSHIRE STREET

Seven horses, 4 tons hay, 200 bushels oats, 1 ton rye straw, 150 lbs. shorts, 300 lbs. rock salt, 5 travers runner sleighs, 2 pungs, 1 light sleigh, 4 feed bags, 1 heavy breast plate and traces, 15 ft. halter rope, 4 shaft lugs, 1 harness oil pan, 3 lbs. curled hair, 1 new and 9 old collars, 1 hay cutter, 1 single truck, 1 Goddard buggy, 1 dump cart, 7 stable blankets, 7 mane brushes, 1 wire brush, 4 brooms, 3 hay forks, 1 chamois skin, 8 sponges, 4 whips, 2 wagon jacks, 4 whiffle-tree chains, 8 street blankets, 1 wolf skin robe, 3 lap robes, 1 dog skin robe, 2 wagon tops, 4 hitch ropes, 6 sunshades, 2 wagon umbrellas, 7 storm covers, 10 halters, 1 pint No. 92 axle grease, 2 lbs. axle grease, 4 galvanized iron pails, 2 hoof picks, 2 floor scrapers, 7 leather surcingles, 2 stall hooks, 1 pair rubber boots, 1 pair clippers, 1 screw driver, 1 set double harness, 2 sets light driving harness, 7 sets single harness, 3

sets old harness, $\frac{1}{2}$ barrel standard food, 2 4-qt. measures, 1 hay hook, 2 hose racks, 2 nozzles, 6 fly nets, 1 string sleigh bells, 2 democrat wagons, 2 saddle pads, 25 ft. $\frac{3}{4}$ -in. rubber hose, 50 ft. 1-in. rubber hose, 6 wagons, 1 scythe and snath, 2 wooden rakes, 2 mowing machine knives, 1 qt. edge blacking, 1 qt. neatsfoot oil, 8 lbs. harness leather, 2 hame straps, 3 pairs $1\frac{1}{4}$ -in. shaft tips, 2 1-in. rings, 12 balls thread, 2 boots.

PAINT SHOP.

Eight paint brushes, 1 step ladder, 1 set falls, 1 set stage hooks, 1 pair triangles, 15 gallons graphite paint, 25 gallons raw linseed oil, 5 gallons turpentine, 2 gallons varnish, 9 gallons wood filler, 25 lbs. color, 2 lbs. French yellow, 20 lbs. sylvan green, 500 lbs. dry red, 30 lbs. whiting, $\frac{1}{2}$ lb. aluminum, $\frac{1}{2}$ lb. gold bronze, 1 whitewash boiler, 8 ladders, 2 pairs tressels, 1 stove, 1 map of Lowell, 1 oil barrel, 1 work bench, 5 10-gallon oil cans, 10 5-gallon oil cans, 2 galvanized iron pails, 10 rolls wall paper, 1 chair, 3 1-gallon jugs, 1 $\frac{1}{2}$ -gallon, 1 shovel, 1 broom, 25 lbs. dualin.

FOUNDRY.

Eighteen flasks, 1 moulder's trough, 1 core bench and vice, 1 sprinkler can, 1 core oven, 1 moulder's shovel, 1 melting furnace, 300 lbs. moulder's sand, 3 sand sieves, 42 cores, 1 pair rammers, 2 trowels, 1 brush, 2 crucibles, 1 pair crucible tongs, 1 pair clamp tongs, 1 bail, 1 steel tip bar, 1 iron ingot, 9 plaster paris patterns, 20 lbs. core sand, 1 wire brush, 40 lbs. old metal, 2400 lbs. egg coal, 1 coal shovel, 350 core wires, 1 wooden wheelbarrow, 1 6-in. cast iron plug, 2 tongs, 1 furnace scraper, 6 core plates.

TOOL SHED AND YARD.

Thirty-seven round-pointed shovels, 7 square-pointed shovels, 3 old coal scoops, 1 long handle shovel, 1 scoop, 1 long handle dipper, 1 hoe, 3 lead pots, 3 sledge hammers, 6 striking hammers, 2 2-in. square head wrenches, 1 1-in. fork wrench, 1 marine pump, 4 lengths hose for marine pump, 19 iron mauls, 8 levers, 39 pick handles, 2 4-in. wooden plugs, 6 6-in., 2 8-in., 1 19-in., 1 12-in., 3 6-in. wooden flanges, 5 12-in., 2 stay chains, 5 log chains, 5 tag ropes, 4 coils old rope, 1 30-in. sling, 2 24-in., 2 16-in., 2 12-in., 2 pairs hooks for slings, 1 iron bar for furnace, 2 handles for lead pots, 1 hay rack, 2 6-in. well tops, 3 20-in. manhole covers, 4 backs for drinking fountains, 2 30-in. covers, 1 30-in. top for drinking fountain, 1 5-in. shaft 13 ft. long, 1 12-in. flange, 4 20-in., 2 30-in., 7 old coal shovels, 400 ft. barb wire, 8 screens for reservoir, 2 tops for exhaust pipe, 2 boats, 1 pair oars, 2 small trucks, 500 ft. cable wire, 3 sand screens, 2 gravel screens, 2 indicator posts, 1 9-ft. iron ladder, 1 trough for drinking fountain, 12 2x14-in. gates for reservoir, 2 marble top screens for radiators, 17 old doors, 2 old door frames, 34 old sash, 14 wooden horses, 7 service barrows, 1 body for iron barrow, 1 10-horse power engine, 1 30-in. head for floating pipe, 2 24-in., 3 16-in. collars for drain pipe, 10 screen frames, 200 lbs. old rope, 1 4-ft. pulley, 4 old buggy wheels, 4 dog troughs, 125 10-in. drift bolts, 1 30-in. iron sink, 9 1½-in. bolts 5 ft. long, 1 4-in. Chapman gate, 8 ft. 4-in. pipe, 1 wire window screen, 1 scoop shovel, 2 sewer jacks, 4 wooden mauls, 1 5-in. elbow, 5 tool boxes, 5-ft. iron fence, 1 6-in., well cleaner, 1 single block, 1 double block, 1 single iron block, 1 6x4-in. iron bushing, 1 6-in. flange, 1 50-gallon oil tank, 1 tunnel, 20 lanterns, 1-2 barrel lime, 1-2 barrel cement, 1 pair wooden skids, 2 old rope mats, 1 axe, 1 bucksaw, 2 saw horses, 1 striking hammer, 1 barrel engine oil, 3 barrels cyclinder oil, 1 bursting wedge, 2 cords wood, 1 mortar bed, 3 derricks, 75 ft. wooden block-

ing, 6 cedar posts, 500 old bricks, 200 new bricks, 1 door and frame for boilers, 100 ft. old planking, 300 ft. 4x4 kyanized spruce, 400 ft. 2-in. kyanized spruce, 7 ft. 14-in. sewer pipe, 1 6x8-in. reducer, 25 soil pipe extension boxes, 82 4-ft. iron gate boxes, 5 6-ft., 10 5-ft., 12 4-ft., 7 2-ft., 29 1-in. sidewalk boxes, 22 portions of sidewalk boxes, 27 1-ft. iron extensions, 5 2-ft., 18 3-ft., 5 hydrant covers and frames, 4 gate box covers and frames.

BLACKSMITH SHOP

One forge complete, 3 anvils, 20 pairs tongs, 1 steel square, 1 vise, 2 sledge hammers, 20 pins and punches, 1 work bench, 3 L. W. W. stamps, 1 clothes closet, 1 coal shovel, 1 coal hod, 800 lbs. coal, 1 broom, 10 heading tools, 21 picks, 1 saw, 33 ft. steel drills, 2 tee wrenches, 200 lbs. machine steel, 100 lbs. common iron, 1 log chain, 1 crow bar, 1 pinch bar, 5 spoons, 1 striking hammer, 20 ft. old chain, 1 lantern, 1 full set blacksmith's tools, 1 chain falls, 2 old iron blocks for falls, 3 files.

PROPERTY AND TOOLS AT RESERVOIR.

One wooden rake, 1 iron rake, 1 monkey wrench, 2 lanterns, 1 long handle hoe, 1 ice chisel, 1 iron pail, 1 round-pointed shovel, 1 square-pointed shovel, 1 broom, 1 hose reel, 150 ft. $\frac{3}{4}$ -in. rubber hose, 1 garden wheelbarrow, 1 buck saw, 1 hand saw, 1 sprinkling pot, 1 pair sheep shears, 1 tee wrench, 1 table, 1 chair, 1 crow bar, 1 long handle skimmer, 1 oil can, 1 floor brush, 2 thermometers.

INLET CHAMBER HOUSE.

Two iron blocks and falls, 1 small iron block, 14 screens, 1 gate wrench, 1 tee wrench, 1 fork wrench, 2 picks, 1 broom, 2 square-pointed shovels, 2 wooden snow shovels, 1 spade, 1 iron rake, 1 wooden rake, 1 garden hoe, 1 sod cutter, 50 ft. 1-in. rubber hose, 1 nozzle, 1 ice chisel, 2 handles for rakes, 1 stool, 2 long handles for ice hooks, 1 long handle ice rake.

FILTER BASIN HOUSE.

One gate wrench, 1 large iron shovel, 1 small iron shovel, 1 iron rake, 1 ice hook, 2 ice chisels, 1 ice net, 1 mortar tub.

BODWELL GATE HOUSE.

One wheel barrow, 2 round-pointed shovels, 2 hay rakes, 1 tee wrench, 1 broom, 8 ft. 1½-in. iron pipe, 20 ft. wire screen.

PROPERTY AND TOOLS AT STOCK ROOM.

3897 lbs. pig lead, 66 lbs. yarn, 1 platform scales, 6 lawn mowers, 3 rubber-boot suits, 10 prs. rubber boots, 55 lbs. Key-stone Grease, 5 gals. lard oil, 1 vise and stand for cutting 6-in. pipe, 14 No. 2 round-pointed shovels, 2 snow shovels, 4 coal shovels, 6 No. 2 square shovels, 1 probing bar, 5 iron rakes, 5 sidewalk-box wrenches, 5 hatches, 11 spoons, 13 gate wrenches, 8 flush-hydrant wrenches, 4 1-in. squarehead gate wrenches, 2 faulk wrenches, 3 long rakes for boilers, 2 ice chisels, 4 paving mauls, 2 tamping bars, 6 crowbars, 25 lbs. small steel drills, 9 rock wedges, 2 rock points, 170 ft. steel drills, 6 galvanized iron pails, 39 calking sets, 32 keys for sidewalk boxes, 1 30-in.

clip, 2 24-in., 1 20-in., 1 18-in., 2 12-in., 4 10-in., 4 8-in., and 5 6-in., 9 yarnung irons, 4 busting wedges, 25 pipe wedges, 2 small drills, 2 bull-head points, 6 stone points, 6 paving hammers, 11 calking hammers, 7 striking hammers, 5 axes, 4 sledge hammers, 1 mason's hammer, 19 diamond points, 20 cold chisels, 10 clamps for clips, 3 flange-pins, 12 pipe-cutters, 3 trowels, 6 ladles, 6 levels, 3 electric batteries, 4 rolls of wire for electric batteries, 9 hand-drills, 75 shims, 83 picks, 7 post-hydrant wrenches, 43 lbs. fire clay, 1 12-in. wooden pulley, 1 11-in., and 1 6-in., 64 lantern chimneys, 18 diaphragms for marine pumps, 2 taps for pumps, 6 yards of heavy canvas for blacksmith tent, 21 yards white duck cloth, 23 brass independent gate spindles, 3 Chapman valve bolts, 9 brass gate spindles, 10 fountain cock spindles, 12 gate spindle-heads, 43 Chapman valve outlets, 12 brass portions of Chapman valve spindles, 16 brass Boston Post spindles, 9 Boston Post wrench-nuts, 2 Ludlow wrench-nuts, 3 Ludlow wrench-nuts with heads, 4 Boston Post wastes, 5 Ludlow hydrant wastes, 4 Chapman wastes, 7 leather flush valves, 22 brass spindles for No. 11 gate, 32 brass gate spindles, 4 gate glands, 5 dog-trough portions, 2 dog troughs, 5 aprons for water troughs, 6 fountain heads, 32 dippers with chains for troughs and fountains, 4 Boston Post valves, 3 post hydrant wrenches, 3 drills for fountains, 1 vise handle, 3 large pipe cutters, 9 wedges, 21 8-in. rubber gaskets, 36 6-in. rubber gaskets for flush hydrant, 22 8-in. rubber gaskets for Boston Post hydrant, 11 8-in. rubber gaskets for globe valve gates, 5 12-in. rubber gaskets for globe valve gates, 8 10-in. rubber gaskets for steam engine, 2 top portions for Smith gate, 1 portion 12-in. gate, 1 portion 6-in. gate, 1 portion 4-in. gate, 2 2-in. coffin-valve gates, 2 Ludlow heads, 1 Ludlow hood, 2 Boston post heads and 2 hoods, 1 independent Chapman hood, 65 Post hydrant nozzle-caps, 1 steamer nozzle, 1 Eddy hood, 21 brass faucets for drinking fountains, 4 plates for stud-bolts on Chapman valve-head, 5 iron portions for Boston Post spindles, 7 wrench-nuts for gates,

4 Ludlow valves, 4 old-style Ludlow valves, 6 5-in. Ludlow valves, 9 lbs. $1\frac{1}{4}$ -inch asbestos packing, 15 $\frac{3}{4}$ -inch gauge glasses 12 inches long, 26 $\frac{3}{4}$ -inch gauge glasses 17 inches long, 11 lbs. fine iron wire, 30 glass oil cups, 12 wire brushes, 3 hand brushes, 36 lbs. flax, 1 whistle for portable boiler, 5 brass oil cups, 12 large lamp wicks, 3 $2\frac{1}{2}$ -in. Ashton gauges, 2 5-in. Ashton steam gauges, 2 4-in. water gauges, 1 old Borden 5-in. steam gauge, 1 American Gauge Co. vacuum gauge, 1 7-in. Worthington vacuum gauge, 1 3-in. water gauge, 1 steam damper regulator, 1 brass kerosene injector, 1 steam pump, 1 brass-covered piston rod, 8 Handhole plates for boilers, 7 5-in. rubber valves $\frac{5}{8}$ -in. hole, 2 doz. rubber washers for gauge glasses, 8 9-in. rubber valves $1\frac{3}{4}$ -in. hole, 9 gauge glass rods, 10 $\frac{3}{4}$ -in. gauge valves, 1 ball steam trap, 12 lbs. $1\frac{7}{8} \times 2\frac{5}{8}$ -in. ring packing, 7 lbs. $1 \times \frac{1}{2}$ -in., 1 lb $1\frac{1}{2} \times \frac{7}{8}$ -in., 6 lbs. $\frac{7}{8} \times 13$ -16-in., $2\frac{1}{2}$ lbs. $1\frac{3}{4} \times 2\frac{3}{4}$ -in., 6 lbs. $3\frac{1}{2} \times 2\frac{1}{4}$ -in. White Star packing, 5 lbs. $\frac{1}{4}$ -in., 11 lbs. $\frac{3}{4}$ -in., 11 lbs. $\frac{1}{4}$ -in. tube packing, 15 handhole gaskets, 14 manhole gaskets, 17 lbs. plumbago, 1 mop handle, 1 bullseye lantern, 4 1-gal. oil cans, 3 cans of Superba Metal Polish, 12 cans Anchor Brand Metal Polish, 27 ft. 2-in. asbestos pipe covering, 58 lbs.. Ebonite rubber packing, 74 lbs. Hub rubber packing, 157 lbs. plain rubber packing $4\frac{1}{2}$ lbs. rubberbestos packing, 22 lbs. extra heavy plain rubber packing, 9 lbs. leather for washers, 1 4-in. iron-bodied gate, 1 2-in. iron bodied gate with Rensselaer flange, 3 2-in. coffin gate valves, 1 3-in. Chapman gate valve, 3 2-in. angler iron valves, 1 2-in. iron valve, 2 $2\frac{1}{2}$ -in. iron check valves, 1 old steam trap, 1 gauge post for boiler, 1 6-in. iron check valve, 3 iron weights for blow-off valve, $18\frac{1}{2}$ lbs. castile soap, 3 1-qt. cans of Newton axle oil, 1-qt. can of Miller harness dressing, 2 4-in. taps, 1 special trowel, 2 sets of blades for mowing machine, 1 small tin oil can, 35 incandescent lamps, 1 hoe for garden, 2 scythes, 1 sod cutter, 1 grass shears, 1 spray for plants, 1 copper oil can, 1 set stencils, 1 insect powder blower, 4 iron braces, 1 harness hook, 4 socket wrenches, 15 lbs. old steel from Morris engine,

1 rough casing for iron valve for Morris engine, 1 bail hook, 89 lbs. of block tin, 35 lbs. antimony, 197 lbs. pig copper, 2 iron moulds, 2 steam pipe hangers, 7 ratchet handles, 2 2-in. wood chisels, 5 small drills, 20 lbs. old belting, 1 watchman's clock box, 5 L. W. W. Stamps, 1 roller for lawn mower, 1 new wheel for lawn mower, 2 gears for lawn mower, 7 old jaws for Stillson wrenches, 17 lead pipe cleats, 41 sheets of sand paper, 1 bunch of old keys, 1 set of bolt taps and dies, 1 set of pipe dies, 1 set of large dies, 1 well driving machine complete, 60 ft. new rope for well driving machine, 1 force pump complete, 1 sounder and rope for wells, 1 2-in. plain, 4 well brushes, 1 tube cleaner, 2 spanners, 20 lbs. old copper wire, 5 lbs. brass screening for well points, 20 lbs. red lead, 18 pipe tongs, 22 lbs. flour, 50 lbs. sal soda, 4 saws, 4 pipe vises, 70 lbs. old nuts, bolts and washers, 11 new pick handles, 2 20-in. monkey wrenches, 4 18-in., and 5 12-in., 2 36-in. Stillson wrenches, 2 24-in., 3 18-in., 1 14-in., and 1 10-in., 1 $\frac{3}{4}$ -in. pipe wrench special, and 1 2-in., 1 6-in. pipe cutter, 2 2-in. pipe cutters, 1 pinch bar, 1 1-in. grip wrench, 1 grind stone, 2 8-in. emery wheels, 15 handles for 1-in. cellar cocks, 36 handles for $\frac{3}{4}$ -in. cellar cocks, 15 caps for $\frac{3}{4}$ -in. sidewalk cocks, 36 caps for 1-in. sidewalk cocks, 53 bunches toilet paper, 14 ft. $\frac{1}{4}$ x2-in. Norway iron, 16 ft. $\frac{1}{2}$ x $\frac{7}{8}$ -in., 15 ft. 1x $\frac{1}{2}$ -in., 14 ft. 1 $\frac{1}{4}$ -in., square, 35 ft. 1 $\frac{1}{4}$ -in. steel, 32 ft. 1-in. steel, 14 ft. $\frac{7}{8}$ -in. Norway round iron, 20 ft. 1 $\frac{3}{8}$ -in., 150 ft. $\frac{1}{4}$ -in., 160 ft 5-16-in, and 40 ft. $\frac{1}{8}$ -in., 1 2-in. auger, 6ft. copper hot water tank, 1 fair ground connection for meter, 2 cast iron frames and covers for meter boxes, 4 5-ft. chain tongs, 2 3-ft. and 1 2-ft., 2 dutchmen, 2 reducers, 2 4-ft. lengths of hose with fittings, 9 scythe stones, 3 sponges, 4 small copper oil cans, 7 bits, 25 tape, 4 brass force pumps, 125 ft. block tin tubing, 200 ft. $\frac{1}{4}$ -in. tin tubing, 8 2 $\frac{1}{2}$ -in. cast iron tees for wells, 7 2 $\frac{1}{2}$ -in. gates, 8 2 $\frac{1}{2}$ -in. well points, 7 2 $\frac{1}{2}$ -in. old well points with screens, 2 2-in. well points, 1 3-in., 2 pitcher pumps, 2 furnaces for melting lead complete, 6 long handled pointed shovels, 12 paving brooms, 1 barn broom, 2 new tag ropes, 30 ft. $\frac{3}{4}$ -in.

rope, 1 6-in flange gate, 2 3-in., 1 freight truck, 50 lbs. waste, 1 pipe vise for team, 1 2-in. die stock, 75 ft. garden hose, 40 ft. extra heavy 1-in. hose, 4 parts of heavy chain falls, 1 roll-top desk, 1 desk, 2 cabinets, 1 book case and set of drawers, 1 letter press and stand, 1 hall stand.

BRASS STOCK.

One set 2-in. flange with 4 bolts, 11 $\frac{3}{4}$ -in. finished solder-nipples, 39 1-in., 6 $1\frac{1}{4}$ -in., 4 $1\frac{1}{2}$ -in., and 112 1-in. unfinished, 63 1-in. half union nuts for meters, 36 $\frac{5}{8}$ -in. half union nuts for meters, 66 1-in. half union nuts for cocks, 43 1-in. elbows, 42 $\frac{3}{4}$ -in., 53 $1\times\frac{3}{4}$ -in., and 10 $1\times\frac{1}{2}$ -in., 16 $1\times\frac{5}{8}$ -in. couplings, 10 $1\times\frac{3}{4}$ -in., and 19 $\frac{3}{4}\times\frac{5}{8}$ -in., 28 1-in. goose neck nipples, 20 $\frac{3}{4}$ -in., and 10 $\frac{5}{8}$ -in., 17 $1\frac{1}{2}$ -in. bushings, 44 $1\times\frac{3}{4}$ -in. nipples, and 10 $1\frac{1}{2}\times 1$ -in. nipples, 40 $\frac{5}{8}$ -in. meter unions, 25 $\frac{3}{4}$ -in., and 20 1-in., 10 $\frac{5}{8}$ -in. bent meter unions, 19 $\frac{3}{4}$ -in., and 11 1-in., 12 2-in. globe valves, 17 $1\frac{1}{2}$ -in., 10 $1\frac{1}{4}$ -in., 17 1-in., 12 $\frac{3}{4}$ -in., 13 $\frac{1}{2}$ -in., 4 $\frac{3}{8}$ -in., 13 $\frac{1}{4}$ -in., and 1 $\frac{1}{8}$ -in., 7 2-in. angler valves, 4 1-in. radiator globe valves, 4 $\frac{3}{4}$ -in., and 2 $\frac{1}{2}$ -in., 5 2-in. tee head gates, and 6 $1\frac{1}{2}$ -in., 7 2-in. wheel head gates, 6 $1\frac{1}{2}$ -in., 9 1-in., and 1 $1\frac{1}{4}$ -in., 5 2-in. Mueller sidewalk cocks, 3 $1\frac{1}{2}$ -in., and 18 $\frac{3}{4}$ -in., 6 2-in. Mueller corporation cocks, and 15 $1\frac{1}{2}$ -in., 5 2-in. Mueller cellar cocks, and 6 $1\frac{1}{2}$ -in., 9 1-in. corporation cocks, 5 1-in. sidewalk cocks, 4 1-in. cellar cocks, 71 $\frac{3}{4}$ -in. corporation cocks, 48 $\frac{3}{4}$ -in. sidewalk cocks, 73 $\frac{3}{4}$ -in. cellar cocks, 68 $\frac{3}{4}$ -in. half unions for cocks, 99 $\frac{3}{4}$ -in. nuts, 4 1-in. half unions for cocks, 3 1-in. nuts, 66 $\frac{5}{8}$ -in. half unions for meters, and 4 $\frac{3}{4}$ -in., 19 $\frac{5}{8}$ -in. nuts, and 69 $\frac{3}{4}$ -in., 13 1-in. washers for cocks, 56 1-in. nuts, 36 $\frac{3}{4}$ -in. sidewalk cock shells, unfinished, 16 $\frac{3}{4}$ -in. plugs, 14 $\frac{3}{4}$ -in. corporation cock shells, 15 $\frac{3}{4}$ -in. corporation plugs, 34 $\frac{3}{4}$ -in. cellar cock shells, 37 cellar cock plugs, 10 2-in. nipples, 18 $1\frac{1}{4}$ -in., and 2 $\frac{3}{4}$ -in., 4 2-in. elbows, 4 $1\frac{1}{2}$ -in., and 2 $1\frac{1}{4}$ -in., 2 2-in. tees, 3 $1\frac{1}{4}$ -in., and 1 1-in., 5 $2\times 1\frac{1}{2}$ -in. bushings, and 2 $1\times\frac{3}{4}$ -in., 3 $1\frac{1}{4}$ -in. plugs, and 2 $\frac{3}{4}$ -in., 21 lbs. brass wire for springs, 4 lbs. stiff brass wire for cock handles, 14 5-in. seats for high duty engine, 35 valve plates, 30 studs for valve plates, 1 spindle for Cushing valve, 13 stud bolts for marine pumps, 5 brass dogs, 2 brass padlocks.

IRON FITTINGS.

Two $\frac{3}{4}$ -in. elbows, 24 1-in., 18 $1\frac{1}{4}$ -in., 3 $1\frac{1}{2}$ -in., 3 2-in., 4 $2\frac{1}{2}$ -in., 3 3-in., 1 4-in., 5 5-in., and 2 6-in., 10 $\frac{3}{4}$ -in. 45 deg. elbows, 25 1-in., 8 $1\frac{1}{2}$ -in., 4 2-in., 4 $2\frac{1}{2}$ -in., and 2 3-in., 48 $\frac{3}{4} \times \frac{1}{2}$ -in. elbows, 7 $1 \times \frac{1}{2}$ -in., 1 $1 \times \frac{1}{4}$ -in., 11 $1 \times \frac{3}{4}$ -in., 5 $1\frac{1}{4} \times 1$ -in., 18 $1\frac{1}{4} \times \frac{3}{4}$ -in., 1 $1\frac{1}{4} \times \frac{1}{2}$ -in., 15 $1\frac{1}{2} \times \frac{3}{4}$ -in., 4 $1\frac{1}{2} \times 1$ -in., 1 2×1 -in., and 5 $2 \times 1\frac{1}{2}$ -in., 11 2-in. galvanized iron elbows, and 9 $1\frac{1}{2}$ -in., 5 $1\frac{1}{2}$ -in. R. and L. couplings, 3 $1\frac{1}{4}$ -in., and 18 1-in., 42 $\frac{3}{4}$ -in. couplings, 115 1-in., 24 $1\frac{1}{4}$ -in., 13 $1\frac{1}{2}$ -in., 104 2-in., 62 $2\frac{1}{2}$ -in., 26 3-in., 2 4-in., 2 5-in., and 1 8-in., 2 $2\frac{1}{2} \times 1\frac{1}{2}$ -in. couplings, 1 $2\frac{1}{2} \times 1\frac{1}{4}$ -in., 3 $2 \times 1\frac{1}{2}$ -in., 4 2×1 -in., 1 $1\frac{1}{2} \times \frac{3}{4}$ -in., 5 $1\frac{1}{2} \times \frac{1}{2}$ -in., 48 $1\frac{3}{4}$ -in., 4 $1 \times \frac{3}{4}$ -in., 68 $1 \times \frac{1}{2}$ -in., 27 $\frac{3}{4} \times \frac{1}{2}$ -in., 31 $\frac{3}{4}$ -in. tees, 2 1-in., 2 $1\frac{1}{4}$ -in., 2 $1\frac{1}{2}$ -in., and 14 2-in., 3 $\frac{3}{4} \times \frac{1}{2}$ -in. tees, 2 $1 \times \frac{3}{4}$ -in., 3 $1\frac{1}{4} \times 1$ -in., 10 $1\frac{1}{4} \times \frac{3}{4}$ -in., 3 $2 \times 1\frac{1}{2}$ -in., 1 $1\frac{1}{2} \times 1\frac{1}{4}$ -in., 1 $2 \times \frac{1}{2}$ -in., 1 $2\frac{1}{2} \times 2$ -in., 1 3×5 -in., 1 $4 \times 2\frac{1}{2} \times 6$ -in., 12 4×3 -in., 5 6×2 -in., 1 8×5 -in., and 1 6-in., 3 $\frac{3}{4}$ -in crosses, 4 1-in., 1 2-in., 1 $1 \times \frac{3}{4}$ -in., 1 $1\frac{1}{4} \times 1$ -in., 4 $1\frac{1}{2} \times 1$ -in., 4 2×1 -in., 2 $2 \times \frac{3}{4}$ -in., 1 $1\frac{1}{4} \times 1$ -in., 4 $1\frac{1}{4} \times 1$ -in., 4 2×1 -in., 2 $2 \times \frac{3}{4}$ -in., 1 $5 \times 2\frac{1}{2}$ -in., and 1 4×3 -in., 6 1-in. caps, 6 $1\frac{1}{2}$ -in., 2 2-in., 1 8-in., 12 $2\frac{1}{2}$ -in., 5 4-in., 1 5-in., and 2 6-in., 5 $\frac{1}{2}$ -in unions, 24 $\frac{3}{4}$ -in., 7 1-in., 3 $1\frac{1}{2}$ -in., and 6 2-in., 1 2-in. Y, 1 $2 \times 1\frac{1}{2}$ -in. and 8 2×1 -in., 1 $\frac{1}{2}$ -in. plug, 121 $\frac{3}{4}$ -in., 15 1-in., 4 $1\frac{1}{4}$ -in., 18 $1\frac{1}{2}$ -in., 10 2-in., 1 3-in., 1 5-in., 6 4-in., and 1 8-in., 12 1-in. corporation plugs, 34 $1\frac{1}{4}$ -in., 76 wheel valve handles, 15 $\frac{3}{4} \times \frac{1}{2}$ -in. bushings, 41 $1 \times \frac{1}{2}$ -in., 33 $1 \times \frac{3}{4}$ -in., 1 $1 \times 1\frac{1}{4}$ -in., 2 $1 \times 1\frac{1}{2}$ -in., 1 $1\frac{1}{4} \times 1\frac{1}{2}$ -in., 2 $1\frac{1}{2} \times \frac{1}{2}$ -in., 5 2×3 -in., 3 2×4 -in., 1 $2\frac{1}{2} \times 5$ -in., 1 3×6 -in., 1 4×6 -in., and 2 5×6 -in., 5 4-in. flanges, 5 3-in., 18 $2\frac{1}{2}$ -in., 14 2-in., 4 $1\frac{1}{2}$ -in., and 4 1-in., 17 $3 \times 2 \times 2\frac{1}{2}$ -in. flange tees, 134 $\frac{3}{4}$ -in. nips, 222 1-in., 34 $1\frac{1}{4}$ -in., 31 $1\frac{1}{2}$ -in., 103 2-in., 87 $2\frac{1}{2}$ -in., 21 3-in., 20 4-in., 17 5-in., 14 6-in., and 2 8-in., 18 ft. of 4-in pipe in short pieces, 51 ft. of $2\frac{1}{2}$ -in. pipe in short lengths, 30 ft. of $2\frac{1}{2}$ -in pipe in two long pieces, 85 ft of 2-in pipe in lengths, and 55 ft. of 1-in. plain iron pipe.

LEAD-LINED FITTINGS.

Forty-one $\frac{3}{4}$ -in tees, 9 $1\frac{1}{4}$ -in., 10 1-in., 22 $1\frac{1}{2}$ -in., 5 $1\frac{1}{4}$ x1-in., and 5 $2\frac{3}{4}$ -in., 6 2x1-in. crosses, 3 $2\frac{3}{4}$ -in., and 3 $1\frac{1}{2}$ x $\frac{3}{4}$ -in., 134 $\frac{3}{4}$ -in. elbows, 7 $1\frac{1}{4}$ -in., 35 $\frac{3}{4}$ x $\frac{1}{2}$ -in., 3 $1\frac{1}{2}$ -in., 54 1-in. and 2 2-in., 2 2-in. 45 deg. elbows, and 3 $1\frac{1}{2}$ -in., 171 $\frac{3}{4}$ -in. couplings, 102 1-in., 98 $1\frac{3}{4}$ -in., 8 $1\frac{1}{2}$ -in., 13 2-in., and 4 $1\frac{1}{2}$ -in., 1 2-in. union, and 1 $1\frac{1}{4}$ -in, 104 $\frac{3}{4}$ -in. nipples, 190 ft. of 1-in pipe, 1330 ft. of $\frac{3}{4}$ -in. pipe, 143 lbs. $\frac{3}{4}$ -in. lead pipe, 33 $\frac{3}{4}$ x $\frac{5}{8}$ -in. goose necks, and 17 1-in., 50 lbs. wiping solder, 7 lbs. soft solder, 1 gas furnace for heating soldering irons, 1 old charcoal furnace for heating soldering irons or lead.

METER STOCK.

Three covers for A style 1-in. Crown meters, 1 cover for A style $\frac{3}{4}$ -in Crown meter, 1 cover for A style $\frac{5}{8}$ -in. Crown meter, 2 covers for AA style 1-in. Crown meters, 2 covers for AA style $\frac{3}{4}$ -in Crown meters, 4 covers for AA style $\frac{5}{8}$ -in Crown meters, 7 covers for AAX style $\frac{3}{4}$ -in Crown meters, 5 covers for AAX style $\frac{5}{8}$ -in Nash meters, 1 cover for A style $\frac{3}{4}$ -in. Nash meter, 3 bottoms for $\frac{5}{8}$ -in. Nash meters, 2 bottoms for $\frac{3}{4}$ -in. Nash meters, 15 clocks for improved Worthington meters, 13 old style clocks for Worthington meters, 14 $\frac{5}{8}$ -in. Empire disc pistons and 2 $\frac{3}{4}$ -in., 2 $\frac{5}{8}$ -in. Empire trains AAX style, 4 $\frac{3}{4}$ -in. Nash trains, 3 $\frac{3}{4}$ -in Crown trains, 2 1-in. Crown trains, 1 $\frac{3}{4}$ -in Hersey disc model F, and 1 $\frac{5}{8}$ -in., 2 $\frac{3}{4}$ -in old style Hersey disc, and 2 $\frac{5}{8}$ -in., 1 dial for $\frac{5}{8}$ -in. Hersey clock, 2 $\frac{3}{4}$ -in Nash disc, and 4 $\frac{5}{8}$ -in., 1 disc for $\frac{5}{8}$ -in Trident meter, 7 dials for Trident meters, 8 bottoms for Trident meters, 1 $\frac{3}{4}$ -in Crown counter, 4 covers for $\frac{3}{4}$ -in. Crown meter clocks, 1 piston for $\frac{3}{4}$ -in. Crown meter, 3 dials for $\frac{5}{8}$ -in Nash meters, 4 dials for $\frac{3}{4}$ -in Nash meters, 4 round dials for $\frac{5}{8}$ -in. Crown meters, and 1 $\frac{3}{4}$ -in., 15 disc for $\frac{5}{8}$ -in. Lambert meters, and 2 for $\frac{3}{4}$ -in., 1 train for $\frac{3}{4}$ -in. Empire meter, 25 lead seals for fire service, 6 1-in. Crown meters, 7 $\frac{3}{4}$ -in., and 4 $\frac{5}{8}$ -in., 1 1-in. Nash meter, 2 $\frac{3}{4}$ -in., and 10 $\frac{5}{8}$ -in., 5 $\frac{3}{4}$ -in. Empire meters,, and 6 $\frac{5}{8}$ -in, 1 1-in. Hersey meter, 5 $\frac{3}{4}$ -in., and 1 $\frac{5}{8}$ -in.,

1 $\frac{3}{4}$ -in. Lambert meter, 1 $\frac{5}{8}$ -in. Trident, 2 2-in. Empire meters, 1 $\frac{3}{4}$ -in. Thompson meter, 2 $\frac{3}{4}$ -in. Columbia meters, and 3 $\frac{5}{8}$ -in., 3 $\frac{3}{4}$ -in. Union meters, and 2 $\frac{5}{8}$ -in., 1 3-in. Worthington meter, 1 1-in., and 1 $\frac{3}{4}$ -in., $\frac{1}{2}$ gross bolts with nuts for $\frac{5}{8}$ -in. Crown meters, $\frac{1}{2}$ gross bolts and nuts for $\frac{3}{4}$ -in. or 1-in. Crown meters.

CAST IRON PIPE AND SPECIALS IN STOCK DECEMBER 31, 1905.

Sizes in inches.	4	6	8	10	12	16	20	24	30
Lengths of Pipe.	12	85	73	2	120	8	9	2	1
Sleeves.....	12	11	7	1	2	3	2	2	4
Caps	1	2			1	2		1	
Plugs	12		2	4			1		
Curves $\frac{1}{4}$	11	6	5	3	6	4			
Curves $\frac{1}{8}$	5	3	5			6	4	2	
Curves $\frac{1}{16}$	29		8		3	3	2		1
Offsets	3	3	7	1					

CAST IRON PIPE IN PIECES.

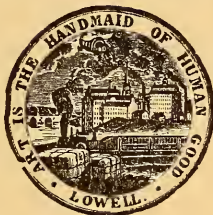
60 ft. 4-in., 60 ft. 6-in., 8 ft. 8-in., 38 ft. 10-in., 30 ft. 12-in., 13 ft. 16-in., 2 ft. 30-in., 12 ft. 4-in. flange pipe, 20 ft. 6-in., 8 ft. 8-in., 200 ft. 2½-in old well pipe, 13 ft. 4-in. wrought iron pipe, 15 ft. 5-in., 3 4-in. coffin gates, 5 6-in., 3 8-in., 7 12-in. gates, 6 6-in Corey hydrants, 2 6-in. Ludlow hydrants, 4 flush hydrants, 1 6-in. Chapman hydrant, 1 6-in. Chapman hydrant independent valve, 1 Lowrey hydrant, 1 30-in. manhole.

[illegible]

MOVABLE FIXTURES AND PROPERTY AT
OFFICE CITY HALL.

Two roll-top desks, 2 standing desks, 1 double flat desk, 1 3-place inspector's desk, 1 2-place inspector's desk, 2 single desks, 2 heavy oak tables, 1 typewriter desk, 1 Remington typewriter, 1 small table, 1 vault table, 2 swivel upholstered chairs, 6 upholstered chairs, 12 cane-seated armchairs, 3 swivel desk chairs, 6 swivel cane-seated chairs, 2 high chairs, 2 stools, 1 step-chair, 1 settee, 1 bookcase, 2 water-pressure gauges, 1 thermometer, 1 clock, 2 table gas lamps, 33 framed pictures—plans, etc., 2 floor rugs, 1 set street tools, 2 earthen spittoons, 6 brass spittoons, 6 waste paper baskets, 1 shovel (historic), 2 mirrors, 1 letter copying press, 2 umbrella racks, 20 ink-stands, 2 pen racks, 4 book racks, set tools, (hammer, wrench, 2 screw-drivers, wire cutter, 1 plane, 1 saw, 1 chisel), 3 tumbler, boot-blackening outfit, 1 hair brush, 1 clothes brush, 1 match chest, 1 fire-insurance map of Lowell, 1 atlas city of Lowell, 5 tin yearly boxes, 1 set Massachusetts statutes, 1 large dictionary, 1 large photo. album, 1 revolving bookcase, 1 card index case, 1 meter card cabinet on wheels.

CITY OF LOWELL



1906.

REPORT

OF THE

COMMITTEE ON APPROPRIATION.

CITY HALL, LOWELL, MASS., March 9, 1906.
TO THE CITY COUNCIL:—

The Joint Standing Committee on Appropriations, whose duty it is to carefully consider the estimates presented to them by the various departments for the year 1906, have attended to that duty and respectfully submit its report in accordance with the ordinance.

The Committee has held fifteen meetings exclusively devoted to estimates, and have had before them the heads of the various departments for the purpose of assisting them in this work. No item has been too small for inquiry and scrutiny.

The Committee entered upon the duties realizing the almost insurmountable difficulties that were before

them, and that the task was not one of pleasure, but one of stern duty, as the total department estimates this year exceeded, by over \$190,000.00, the total amount available.

From information furnished, the Committee has been impressed with the fact that the departments of the City, with but few exceptions, are conducted intelligently and economically. The Committee deplors the fact that they have been unable in all cases to satisfy the urgent and honest requirements of such departments.

The Board of Charities is a new departure in caring for the poor of our City, and, as the citizens are looking for great results, the Committee has seen fit to cut this department's estimates; but we trust that under the present able management the department will be able to properly care for the poor and still live within its appropriation.

The Committee has had constantly in mind the general financial condition of the City. At the commencement of the year 1905, the City debt, as related to limit of indebtedness, was \$1,517,380.00. The distance from the Debt Limit was \$272,658.40. At the commencement of the year 1906 the distance from the Limit was \$178,409.13.

It appears therefore that during the year 1905 the City "ran behind" and approached nearer its limit \$94,249.27.

The School Committee seems to realize the financial condition of the City and we believe are trying to reduce expenses. In view of this, your Committee has cut their estimates somewhat, but we trust they will be able

to get along without an extra appropriation. As the Training School is regarded by your Committee as an unnecessary expense, and believing that it cannot be strictly classed as a regular public school, we have refused to appropriate money for its continuance.

During the year 1906 we must pay fixed charges of. \$438,236.90

For improvements during the year it will be necessary to make loans. Such loans should be made only for Permanent improvements.

Your Committee was asked to appropriate for the year 1906. \$1,495,454.02

The total estimated revenue for the year from all sources is. \$1,305,428.69

The estimates, therefore, had to be cut. \$ 190,025.33

The expenses of the departments for last year, exclusive of sewer construction and the Water Works Department were \$1,434,856.92

The amount asked for in excess of last year is in round numbers \$60,500.00

The Committee has found it necessary to recommend appropriations consuming almost entirely the City's estimated revenue, leaving a balance of \$3,465.22 in the General Treasury Fund.

Your Committee believes that the amounts recommended for each department are sufficient to last them the entire year and that competent heads of departments will strive to live within their appropriations and so regulate their expenses that they may be able to keep their departments running the entire year.

Estimated Revenue, 1906.

Average City Valuation for past three years deduct- ing abatements.....	\$71,532,689 00
Multiply by \$12 per \$1,000 of valuation.....	12 00
	\$858,392 27

OTHER REVENUES.

Balance General Treasury Fund	\$29,876 42	
Incidentals	3,690 00	
City Cemeteries	6,400 00	
City Clerk	1,400 00	
City Weigher	200 00	
City Sealer	315 00	
City Treasurer.....	2,200 00	
Corporation Tax.....	80,000 00	
Fire Department	300 00	
Health Department.....	4,000 00	
Inspector of Milk and Vinegar	125 00	
Liquor Licenses.....	174,000 00	
Military Aid, etc.....	18,000 00	
Park Department.....	1,200 00	
Charity Dept. (Almshouse)..	1,050 00	
Charity Dept. (Out Door Re- lief)	5,000 00	
Police Department	12,000 00	
Public Buildings.....	2,500 00	
School Department.....	7,000 00	
Sewer Construction.....	17,000 00	
Street Department	9,000 00	
Watering Streets.....	17,000 00	
Interest	29,000 00	
National Bank Tax	8,750 00	
Excise Tax	7,600 00	
Armory Rent (Two years)...	2,400 00	
Street Railway Tax.....	7,000 00	
Lighting Department.....	30 00	
		\$447,036 42
Total estimated revenue for 1906.....		\$1,305,428 69

Summary of Department Expenses and Estimates.
Amount Recommended by Committee on Appropriations.

	1905 Expense	1906 Estimate	Committee Recommends.
Abolition of Grade Crossings.		\$1,000 00	
Assessors	\$14,142 21	14,262 00	\$13,862 00
Auditor	4,190 00	5,192 00	4,886 67
Care of Trees	997 97	1,990 00	1,990 00
Charity Dept. (Almshouse)...	68,273 21	57,980 95	45,000 00
Charity Dept. (Outdoor Relief)	49,143 52	41,150 00	35,000 00
City Cemeteries	8,999 60	12,220 00	6,000 00
City Clerk	5,806 27	6,492 00	6,400 00
City Treasurer	11,105 85	12,373 32	11,875 32
City Sealer	415 84	420 50	410 50
City Weigher	816 78	818 00	818 00
City Messenger	18,073 73	18,212 25	17,212 25
Clerk of Committees	1,387 93	1,400 00	1,400 00
Clerk of Common Council	300 00	300 00	300 00
Elections	12,956 69	13,181 00	10,000 00
Engineering	16,247 42	7,300 00	7,229 00
Fire Department	136,508 80	141,545 89	138,775 89
Fish Warden	40 00	40 00	40 00
Health Department (Office)...	11,490 96	12,095 00	11,284 75
Health Department (Yard)	36,919 35	40,672 76	35,553 00
Incidentals	3,254 94	3,300 00	3,200 00
Insurance	2,366 90	2,145 00	2,145 00
Inspector of Milk and Vinegar	2,368 59	2,405 25	2,368 00
Inspector of Animals	500 00	525 00	515 00
Inspector of Wires	2,674 98	3,706 00	2,501 00
Law Department	6,070 44	6,072 44	5,900 00
Library	15,379 39	16,382 75	13,000 00
Liquor Licenses	43,000 00	43,000 00	43,000 00
Lighting Department	101,069 86	102,217 92	102,117 92
Mayor's Department	4,518 72	4,600 00	4,400 00
Moth Extermination	500 00	1,000 00	1,000 00
Park Department	12,771 20	15,353 22	15,000 00
Pound Keeper	5 00	5 00	5 00
Police Department	143,974 62	154,761 66	144,000 00
Public Buildings	33,445 06	41,247 25	24,986 00
Registrars of Voters	5,524 25	5,925 00	5,585 00
Rifle Range	699 16	1,832 00	1,500 00
School Department	309,240 84	314,000 00	273,000 00
School Houses	77,716 08	82,000 00	65,500 00

	1905 Expenses	1906 Estimate	Committee Recommendations
Sewer Maintenance	26,166 40	28,507 00	16,000 00
State Aid Department.....	30,832 14	31,300 00	30,000 00
Sewer Construction.....	99,466 37		
Street Department	192,568 36	220,657 42	175,000 00
Supply Department	6,303 12	6,311 44	6,174 00
Watering Streets.....	16,090 74	19,554 00	17,000 00
Water Department	189,478 12		
	\$1,723,801 41	\$1,495,454 02	\$1,301,934 30

LIMIT OF INDEBTEDNESS.

Limit of municipal debt for 1906, 2½ on \$71,532,689.00 (average valuation for last three years).....			\$1,788,317 23
Total City Dept. Dec. 31, 1905		\$3,555,608 10	
Deduct Water Loans.....	\$1,145,700 00		
Deduct exemptions by Legis- lation.....	800,000 00	1,945,700 00	
City Debt as it relates to limit of indebtedness....			1,609,908 10
Distance from Limit, January 1, 1906.....			\$178,409 13

FIXED CHARGES.

	1905	1906	
City Debt.....	\$267,621 90	\$274,936 90	\$7,315 00 Inc.
Interest.....	134,500 00	131,000 00	3,500 00 Dec.
Sinking Funds.....	32,300 00	32,300 00	
	\$434,421 90	\$438,236 90	\$3,815 00 Net Inc.

Summary of Anticipated Receipts and Appropriations, 1906.

Amount which Assessors are directed to raise by taxation.....	\$1,296,600 00	
Revenue Estimated.....	447,036 42	\$1,743,636 42
Fixed Charges.....	\$ 438,236 90	
Appropriated for Departments.....	1,301,934 30	\$1,740,171 20
Balance left in General Treasury Fund		\$3,465 22

Your Committee introduce the accompanying Joint Orders and recommend the adoption of the same.

Respectfully submitted,

JAMES F. WALKER, *Chairman.*

WILLIAM H. BROWN,

HARRY H. J. READ,

JEREMIAH F. CONNORS,

FRED'K A. EVANS,

GEORGE W. PETERSON,

Committee on Appropriations.

CITY OF LOWELL.

In Board of Aldermen.

Order to Appropriate Money to meet Fixed Charges and Current Expenses.

Ordered, if the Common Council concur, That the following sums amounting to one million, seven hundred forty thousand, one hundred seventy-one dollars and twenty cents, (\$1,740,171.20) be and they are hereby appropriated to meet the Fixed Charges and Current Expenses of the City of Lowell for the year beginning January 1, 1906, and ending December 31, 1906.

Assessors		
Salaries.....	\$12,169 00	
Sundries.....	1,693 00	
		\$13,862 00
Auditor		
Salaries.....	3,886 67	
Sundries.....	1,000 00	
		4,886 67
Care of Trees		1,990 00
Charity Department (Alms-house)		
Labor.....	12,200 00	
Sundries.....	32,800 00	
		45,000 00
Charity Department (Out Door Relief)		
Salaries and Office Sundries.....	4,500 00	
General Sundries	30,500 00	
		35,000 00
City Cemeteries		6,000 00
City Clerk		
Salaries	5,152 00	
Sundries.....	1,248 00	
		6,400 00
City Treasurer		
Salaries	8,216 82	
Sundries	3,658 50	
		11,875 32
City Sealer		
Salary.....	350 00	
Sundries	60 50	
		410.50

City Weigher		
Salary	800 00	
Sundries.....	18 00	
		818 00
City Messenger		
Salaries and Labor	9,508 50	
Fuel.....	3,300 00	
Sundries	1,900 00	
Lighting	1,500 00	
Police	1,003 75	
		17,212 25
Clerk of Committees		
Salary.....	1,200 00	
Sundries	200 00	
		1,400 00
Clerk of Common Council.....		300 00
Elections.....		10,000 00
Engineering.....		7,229 00
Fire Department		
Salaries	114,075 89	
Sundries	24,700 00	
		138,775 89
Fish Warden.....		40 00
Health Department (Office)		
Salaries and Labor.....	9,284 75	
Sundries	2,000 00	
		11,284 75
Health Department (Yard)		
Labor.....	26,853 00	
Sundries	5,700 00	
Collection Market Refuse.....	3,000 00	
		35,553 00
Incidentals.....		3,200 00
Insurance.....		2,145 00
Milk and Vinegar		
Salaries	2,205 25	
Sundries	162 75	
		2,368 00
Inspector of Animals and Provisions		
Salary	500 00	
Sundries	15 00	
		515 00

Inspector of Wires		
Salaries.....	2,226 00	
Sundries.....	175 00	
Traveling Expenses.....	100 00	
		2,501 00
Law Department		
Salaries.....	4,826 00	
Sundries.....	1,074 00	
		5,900 00
Library		13,000 00
Lighting		102,117 92
Liquor Licenses.....		43,000 00
Mayor		
Salaries.....	4,200 00	
Sundries	200 00	
		4,400 00
Moth Extermination		1,000 00
Park Department		
Labor.....	10,000 00	
Sundries	5,000 00	
		15,000 00
Pound Keeper		5 00
Police Department		
Salaries and Labor.....	138,000 00	
Sundries	6,000 00	
		144,000 00
Public Buildings Department		
Salaries.....	2,736 00	
Labor.....	9,000 00	
Sundries	8,500 00	
Painting City Hall.....	750 00	
City Hospital Repairs	4,000 00	
		24,986 00
Registrars of Voters		
Salaries and Clerk Hire.....	\$ 4,050 00	
Sundries.....	1,535 00	
		\$5,585 00
Rifle Range.....		1,500 00
Schools		273,000 00
School Houses Department		
Janitors	40,000 00	
Labor	12,000 00	
Sundries.....	12,000 00	
Replacing High Street School Plumbing and Heating system.....	1,500 00	
		65,500 00

Sewer Maintenance.....		16,000 00
State Aid Department		
Salaries and Office Expenses.....	2,100 00	
State Aid	16,000 00	
Soldiers' Relief.....	8,700 00	
Military Aid.....	3,200 00	
		30,000 00
Street Department.....		175,000 00
Supply Department		
Salaries and Labor	5,530 00	
Sundries	644 00	
		6,174 00
Watering Streets		
Labor.....	5,500 00	
Sundries	11,500 00	
		17,000 00
Department Total.....		\$1,301,934 30
FIXED CHARGES.		
City Debt	\$274,936 90	
Interest.....	131,000 00	
Sinking Funds.....	32,300 00	
		438,236 90
Total		\$1,740,171 20

And that the sum of one hundred ninety-two thousand dollars (\$192,000.00) be appropriated for the expenses of the Water Department, to be paid from its revenues.

CITY OF LOWELL.

In Board of Aldermen.

Order relating to Report of Committee on Appropriations.

Ordered, if the Common Council concur, That a sufficient number of copies of the report of the Committee on Appropriations be printed for, and that they be included in, the published volumes of the Lowell City Documents for the year 1906, the expense of the printing to be charged to the Appropriation for Incidentals.

CITY OF LOWELL.

In Board of Aldermen.

Order to Assess Taxes for the year Nineteen Hundred and Six.

Ordered, If the Common Council concur:

First.—That the Board of Assessors of the City of Lowell be, and they are hereby, instructed to raise the sum of One Million, Two Hundred Ninety-six Thousand, Six Hundred Dollars, (\$1,296,600.00) by assessment upon Polls and Estates of the Inhabitants of the City of Lowell, and Estates of Non-Resident Proprietors, according to law, to defray the current expenses of the City for the financial year beginning January 1, 1906, and ending December 31, 1906.

Second.—That interest at the rate of six per centum per annum shall be charged on all taxes under this order which remain unpaid on and after the twentieth day of October, 1906, until same shall be paid, and such interest shall be added to and be considered a part of said taxes.

Third.—That a copy of this Order shall be furnished to the Board of Assessors by the City Clerk within ten days after the approval of the same.

ANNUAL REPORT
OF THE
BIRTHS, MARRIAGES AND DEATHS,
IN THE
City of Lowell,
FOR THE YEAR 1905.



LOWELL, MASS.,
PRESS OF C. E. ROBINSON
1906

CITY OF LOWELL.

IN BOARD OF ALDERMEN,
March 27, 1906.

Received, read, ordered on file ; sent down for
concurrence.

GIRARD P. DADMAN, City Clerk.

IN COMMON COUNCIL,
April 3, 1906.

Received, read and ordered on file in concur-
rence.

FRANK M. DOWLING, Clerk.

CITY OF LOWELL.

CITY CLERK'S OFFICE, }
March 27, 1906. }

TO THE HONORABLE CITY COUNCIL:

GENTLEMEN:—I have the honor to present you herein the annual report of Births, Marriages and Deaths for the year 1905, as of record in this office, to wit:

BIRTHS.

	WARDS—One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ward not given	Total
Whole Number.....	163	254	269	249	230	316	571	180	192	89	2513
Males	87	127	134	131	128	151	289	101	97	43	1288
Females.....	76	127	135	118	102	165	282	79	95	46	1225
American Parents....	24	36	66	53	36	55	68	68	55	11	472
Foreign Parents.....	108	178	122	146	149	181	392	61	90	59	1486
American Father,											
Foreign Mother....	13	16	46	18	28	35	53	19	29	6	263
Foreign Father,											
American Mother..	17	23	33	31	15	41	56	29	18	2	265
Parents' Nationality											
Not given.....	1	1	2	1	2	4	2	3		11	27
Twins		2	2	2	1	4	5		7	2	25

Of the above, 11 born in Lowell of parents residents out of the city, and 18 born out of the city of parents residents of Lowell.

Still Births not included in above, 135.

MARRIAGES.

One thousand notices of intention of marriage were received and entered in 1905, being 56 less than in 1904.

The number of marriages recorded was 981, being 84 less than in 1904.

Marriages solemnized in Lowell, 947; elsewhere 34

MARRIAGES IN 1905, BY MONTHS.

January.....	76	May.....	71	September.....	85
February.....	63	June.....	160	October.....	104
March.....	50	July.....	75	November.....	118
April.....	60	August.....	67	December.....	52

NATIONALITY OF CONTRACTING PARTIES.

	GROOMS	BRIDES
United States	415	398
Canada	187	178
Ireland	85	100
England	60	53
British Provinces	35	49
Russia and Poland	44	37
Greece.....	43	43
Portugal and Western Islands.....	22	25
Austria	47	52
Norway and Sweeden.....	10	13
Scotland	9	13
Other Countries.....	24	20
	GROOM	BRIDE
Oldest couple married.....	71	72
Youngest couple married	18	15
Oldest person married, 72. Grooms under 21 years, 52		
Youngest person married, 15. Brides under 18 years, 20		

DEATHS.

The total number of deaths returned and recorded in the City Clerk's Office for the year 1905 was 1946; of these, 47 were residents of Lowell who died elsewhere, making the number of deaths returned and recorded as having occurred in Lowell, exclusive of still births, 1899, an increase of 163 over the year 1904

Males	953
Females	944
Sex not given	2
Persons over 90 years	4
Still births (not included)	135

Statistics in greater detail relating to deaths may be found in the annual report of the Board of Health.

Respectfully submitted,

GIRARD P. DADMAN,

City Clerk.

Table Giving the Number of Births, Marriages and Deaths in Lowell since its Incorporation.

YEAR	POPULATION	BIRTHS	MARRIAGES	DEATHS
1843		Est. 5010	Est. 4500	Est. 4186
1844	25163	662	319	362
1845		660	399	363
1846	29127	772	591	690
1847		719	659	949
1848		796	516	825
1849		672	320	903
1850	33383	966	674	492
1851		1018	669	629
1852		1007	669	604
1853		1093	742	734
1854		1092	808	834
1855	37554	1039	687	766
1856		1034	632	790
1857		1051	585	818
1858		827	467	626
1859		983	496	739
1860	36827	1077	497	720
1861		949	459	713
1862		763	368	641
1863		657	302	695
1864		658	325	633
1865	30990	672	406	575
1866	36878	813	625	749
1867		826	596	640
1868		860	495	857
1869		858	575	763
1870	40928	926	515	952
1871		886	647	1033
1872		1099	670	1048
1873		1365	705	1161
1874		1356	580	1184
1875	49688	1296	513	1020
1876		1264	514	1147
1877		1341	552	1029
1878		1332	546	1088
1879		1412	635	1006
1880	59485	1770	744	1312
1881		1840	786	1287
1882		1755	813	1322
1883		1681	848	1432
1884		1786	735	1401
1885	64107	1769	707	1328
1886		1813	813	1499
1887		1835	873	1872
1888		1886	886	1763
1889		2133	968	1894
1890	77696	2175	979	1960
1891		2203	944	1976
1892		2714	941	2228
1893		2688	955	2108
1894		2764	793	1790
1895	84359	2772	978	1898
1896		2805	854	1896
1897		2622	866	1882
1898		2422	962	1835
1899		2419	1015	1880
1900	94969	2574	1135	1852
1901		2770	1022	2042
1902		2496	1075	1944
1903		2514	1026	1897
1904		2515	1065	1736
1905	94889	2513	981	1899
		99045	48029	78897

TWENTY EIGHTH

ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

CITY OF LOWELL

FOR THE YEAR NINETEEN HUNDRED FIVE



LOWELL, MASS.

THE LAWLER PRINTING COMPANY, PRINTERS

1906

ORGANIZATION, 1905

BOARD OF HEALTH

LEONARD HUNTRESS, M. D., Chairman.
WILLIAM B. JACKSON, M. D.
WILLIAM C. DOHERTY.

HEALTH DEPARTMENT OFFICERS

H. H. KNAPP, Agent and Secretary of Board.
THOMAS B. SMITH, M. D., Bacteriologist.
WILLIAM A. JOHNSON, M. D., Physician.
STEPHEN GARRITY, Plumbing Inspector.
WILLIAM H. CONNORS, Plumbing Inspector.
FRED A. BATES, Inspector Contagious Diseases.
FRANCIS J. O'HARE, General Inspector.
JOHN M. FARRELL, Inspector Meat and Provisions.
KATHARINE W. SNOW, Registrar.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, February 13, 1906.

Received, read and ordered on file in concurrence.

GIRARD P. DADMAN, *City Clerk*.

IN COMMON COUNCIL, February 20, 1906.

Received, read and ordered on file; sent down for concurrence.

FRANK M. DOWLING, *Clerk*.

REPORT

To the Honorable Mayor and City Council of the City of Lowell:

The Board of Health respectfully presents its 28th annual report of the operations of the Health Department for the year ending December 31st, 1905, together with a statement of the receipts and expenditures for the same period.

The personnel of the board for the past year has been the same as in the previous year, namely, Dr. Leonard Huntress, Dr. William B. Jackson and Mr. William C. Doherty. The Board organized February 9th, 1905, by choosing Dr. Leonard Huntress Chairman for the ensuing year and electing Horace H. Knapp, Secretary.

The death rate of Lowell has been low, nearly as low as the lowest. Such would not seem to be the case from a cursory examination of the mortality tables given elsewhere, for, whereas the rate for 1905 was 20.02 per thousand, the rates given for the three previous years were 19.43 for 1902, 18.61 for 1903, and 16.62 for 1904. These figures, however, were obtained from an over-estimated population, the estimate for 1904 being 10,000 more than last year's census gave. A revision of the figures to agree with the facts would show the mortality rate of 1905 to be the third lowest in the past sixteen years.

Aside from the formidable epidemic of Cerebro-Spinal Meningitis (spotted fever) which we had to contend with last spring and summer, the mortality from contagious diseases shows a favorable record. There were no deaths from either Scarlet Fever or Small Pox, although there were twenty-four cases of the latter disease in the city.

The epidemic of Cerebro-Spinal Meningitis, which was larger in Lowell than in any other city in Massachusetts in proportion to the population, gives 101 cases with 61 deaths. Antitoxin was used, also lumbar puncture (both for diagnosis and treatment), but with unsatisfactory results. There is no disease to which the people of this climate are liable so overwhelming in its destructiveness and so little amenable to treatment. The Board felt justified in adopting a rule, placing this disease in the same category with diphtheria, as regards the placarding of houses and funeral restrictions.

We would like to call attention to the fact that in the use of antitoxin for treatment of spotted fever one thing was proved beyond doubt, viz: the innocuousness of this serum. Notwithstanding the fact that the administration of antitoxin has markedly reduced the death rate of diphtheria, the old superstition against its use has not entirely disappeared, and wherever an unhappy sequel has followed its employment, this result has been attributed to the antitoxin. For instance, occasionally a case of diphtheria is followed by death from paralysis of the heart. Now this happened just as frequently before the days of antitoxin as it does now, but it is sometimes difficult to persuade a family, after this sad event, that it was not due in some way to the antitoxin. Three or four bottles (of 1500 units) is the usual dose of serum in diphtheria cases—seldom more than twelve bottles are used. In the epidemic of Cere-

bro-Spinal Meningitis much larger doses were employed, and in one case 107 bottles were used without the slightest ill effect.

Right here we wish to remind you of the fact that there is no contagious hospital in Lowell besides the one for small pox, the so-called pest house, and the Lowell Hospital (the Corporation Hospital). Several times within the last ten years have the Lowell Boards of Health called the attention of the City Council to this matter, and the Board for 1901, in its annual report, went into the subject at length. The legislature of 1901 passed an act (Chapter 171, Act of 1901) REQUIRING every city to establish a hospital for the reception of persons having Small Pox or ANY OTHER DISEASE dangerous to the public health, but notwithstanding the passage of this act, and in face of the crying need of such a hospital, nothing has been done in this direction.

We believe that the Gas Nuisance is a thing of the past. The Board of Health of 1904, composed as at present, with the assistance of Professor Olney of the Textile School, demonstrated that the cause of the odors complained of along the course of the sewers, from the vicinity of the Gas Works to the Merrimack River, was the tar filtrate deposited in the manufacture of water gas. We found the officers of the company willing and eager to devise some means of overcoming this evil. They shipped large quantities of the tar product out of the city had deposited it in sand quarries, and they enlarged at great expense their filter plant for purifying the refuse water. Now this water appears to be entirely free from the volatile tar, and we are pleased to learn that the filtrate, instead of being a nuisance, something to be gotten rid of, is used in the Gas Works as fuel of no inconsiderable value. In the year 1905 odors were noticed on one occasion only, and this resulted from an

accident which could not have been foreseen, but we see no reason to fear a repetition of the nuisance.

A cremator, one of the Engle variety, was installed in this city in 1892 and for twelve years it did good work, but for the past eighteen months it has been so completely worn out that its use has been attended, not only with great difficulty, but also with extreme danger. The City Council, in December, 1904, voted to borrow \$10,000.00, said sum to be expended for a cremator, under the direction of the Board of Health. Accordingly we investigated the various incinerators which in our opinion would most likely meet the requirements of this city and among them one devised by F. L. Decarie of Minneapolis which seemed to us the best. In other cremators there is a down draft which, as every one who has ever tried to light a fire knows, is wrong. But in the Decaries machine the draft is upwards and the only strange thing about it is that no one has ever made use of this before with success in any incinerator. This draft works so well that only a few sticks of wood are required to start the fire, and the fire once started has no other fuel than market refuse and garbage. A low fire is maintained in the side ovens for the purpose of consuming the gases of the smoke or vapor before it passes through the stack and inflicts itself upon the outside world. And, by the way, these side fires are necessary only when carrion or fish heads, or something equally offensive, is being burned.

An incinerator of this pattern has been installed and is now in operation in Ayer's City near the old one. The Board have given the most careful attention to the selection of this cremator and are certain that it will prove successful.

The building erected for this incinerator is not satisfactory, but the Board of Health having met with

serious difficulties in obtaining a lease of the land on which it stands, were willing to accept the building as it is. The expense necessary to put it in proper condition will be slight and we are sure that this can be accomplished without a special appropriation.

We have been obliged to refuse several licenses for stables asked for. The Salvation Army made application for a license to build a stable, but, inasmuch as this was to be under their living and sleeping quarters, their request was not granted.

The Archambault case has been carried to the Supreme Court, and it has been decided that the Board of Health which granted Mr. Archambault a license in July, 1899, had no right to revoke said license four weeks later without specific cause, and that consequently the original license is still valid. We gave a hearing recently to several parties living near this stable who claim that it is a nuisance. We have the matter at present under consideration.

During the year the Butchers' and Grocers' Association of Lowell have twice waited upon us through representatives, asking us to carry their market refuse to the cremator at the expense of the city. While we believe that the work would be done more thoroughly in this way, we have been obliged to refuse this request through lack of funds, but we have estimated the cost of this undertaking and such estimate will be presented to the present City Council for their consideration.

We have had considerable complaint from our dumps. It certainly seems paradoxical for the Board of Health to establish nuisances, but if a dump is located near, or in, a residential section, and bits of paper, sometimes clean and sometimes filthy, are scattered over lawns from such a dump, it is not surprising if the

owners of said lawns should protest. And such protests are carefully considered by the Board and the trouble is rectified just as soon and just as thoroughly as is practicable. Household-ers must not be impatient if we resort to every other expedient before the one which for us is the most difficult of all, i. e., further outlay of money.

INSPECTOR OF PROVISIONS.

Lowell, Mass., Jan. 4, 1906.

Mr. H. H. Knapp, Agent Board of Health.

Dear Sir:

I take pleasure as inspector of Meats and Provisions in rendering you a report for the year 1905.

During the year I have visited the wholesale and retail meat and fish markets, making thirty visits weekly, taking a section each week, paying particular attention to the quality, condition and manner in which it was being handled, and find with a few exceptions a great improvement over last year.

I turned over to the Lowell Rendering Co., parts of veal, stale lamb and beef, fowl, etc., with a warning to the dealer, which has given good results, and as for clean markets, I am sure that Lowell is above the average over other cities which I have visited.

Yours truly,

JOHN M. FARRELL,

Inspector of Provisions.

Lowell, Mass., Jan. 1, 1906.

H. H. Knapp, Agent Board of Health.

Sir:—The following is a report of the work done by me for the year ending December, 1905:

Number of applications for permits to do plumbing:		
New buildings	171	
Old buildings	341	
Total	—	512
Number of visits, new buildings		
Number of visits, new buildings	342	
Number of visits, old buildings	574	
Total	—	916

Respectfully,

STEPHEN GARRITY,
Plumbing Inspector.

Lowell, Mass., Jan. 5, 1906.

The following is a report of the work done by the Plumbing Commission from Dec. 31, 1904, to Dec. 31, 1905:

Whole number of applicants for examination..	28
For Master Plumbers' licenses	16
For Master Plumbers' licenses passed.....	4
For Master Plumbers' licenses, failed	12
For Journeyman Plumbers' licenses	12
For Journeyman Plumbers' licenses, passed..	8
For Journeyman Plumbers' licenses, failed...	4

Master plumbers' licenses granted to Edward Kerwin, Oliver Blanchard, Joseph F. Mongrain, Frank Gunther.

Journeyman Plumbers' licenses granted to O. J. Blanchard, Albert Hoyle, Chas. E. Midwood, George Phipps, William H. Conlon, John McMahon, Daniel Guthrie, James L. Spiers.

DENNIS J. PENDERGAST,
Secretary.

BOARD OF HEALTH IN ACCOUNT WITH
PLUMBING COMMISSION.

Forward from 1904	\$27.64
Received from Examinations and Renewals	37.50
	\$65.14
1905.	Cr.
May 13. Paid D. J. Pendergast.....	\$10.00
May 27. Paid D. J. Pendergast	15.00
June 29. Paid D. J. Pendergast	5.00
Aug. 12. Paid D. J. Pendergast	15.00
Dec. 23. Paid D. J. Pendergast	15.00
	\$ 60.00
Dec. 31, 1905, cash on hand	\$ 5.14

COMPILATION OF INSPECTORS' RETURNS.

Jan. 1 to Dec. 31, 1905.

Tenements	4260
Stores	486
Sinks	4717
Water closets	5433
Bath tubs	105
Basins	135
Set tubs	61
Urinals	63
Refrigerators	82
Vaults	119
Barns	52
House drains	960
Ash chutes	54
School houses	9
Bakeries	82
Barber shops	111
Dry wells	17
Hen houses	35
Complaints	268

Notices to abate the following nuisances were sent from this office during the year 1905:

Untrapped sinks	4
Unsealed sink traps	2
Clogged sink wastes	13
Open joints in sink waste	6
Leaky sink wastes	7
Cracked and leaky sinks	2
Clogged bath tub waste	1
Leaky sink traps	5
Dilapidated woodwork around sink	2

Improperly constructed sink waste	1
Leaky sink collars	1
No covers for sink traps	2
Clogged water closets	53
Filthy water closet apartments	21
Dilapidated woodwork around water closets	7
Broken water closet bowls	6
Defective water closet tanks	5
Leaky water closets	10
Leaky pressure cocks to water closets . .	3
Unsealed water closet traps	2
No covers on water closet trap	1
Filthy urinals	2
No water supply to sinks	9
No water supply to water closets	30
Frozen water pipes	3
Leaky water pipes	13
Insufficient water supply to water closets	4
No water supply to house	1
Clogged drains	7
Open drains	6
Broken drains	2
Improper drainage	1
Leaky drain	1
Filthy tenements	2
Rubbish in tenements	3
Whitewash ceilings	2
Defective chimney flues	2
Rubbish in cellars	104
Open cesspool	1
Mattresses in cellars	4
Swill, ashes and rubbish in yards	141
Overflowing ash barrels	5
Rubbish in sheds	4

Old mattresses in yards	2
To clean ash pit	1
Leaky roofs	3
To remove manure and refuse from barn cellar	3
Filthy hen yard	1
Broken back ventilation pipe	1
Defective refrigerator waste	2
Leaky soil pipe	1
Leaky gas pipe	1
Open joints in soil pipe	1
To whitewash bakery	1
To remove swine	14
To connect with street sewer	5
Legal notices served	29
To clean vaults	26
Permits given to T. F. Fay to clean vaults	124
Permits given to T. F. Fay to clean dry wells	22
Permits given to F. A. Fox to clean vaults	41
Permits given to F. A. Fox to clean dry wells	6

OFFICE INSPECTOR OF ANIMALS.

Lowell, Mass., Dec. 28, 1905.

Board of Health, Lowell, Mass.

Gentlemen:—As is customary, I herewith submit my annual report for the year ending Dec. 31, 1905.

Since the first of January, 1905, as Inspector of Animals for the City of Lowell, I have made a careful examination of six hundred and ninety-one (691) animals for contagious diseases; identified and released four hundred and seventeen (417) cows; have looked up and reported to the Cattle Bureau, of the State Board of Agriculture, the arrival of between twenty (20) and thirty (30) head of cattle, which they had reasons to think had been brought into Lowell, or surrounding towns, without fulfilling all the requirements of the Bureau.

In my annual inspection of the cattle and barns of the City, I have made careful physical examination of three hundred and three (303) cows giving milk; twenty-seven (27) dry cows; twenty (20) young cattle; five (5) bulls; two (2) oxen; and two hundred and ninety-one swine; and have forwarded the data to the State Cattle Bureau, as well as a report of the sanitary condition of the forty-eight (48) stables in which they are kept, as regards dimensions, air, light, water, cleanliness, moisture, etc.

During the year, I have quarantined five cows as being badly affected with tuberculosis, and after being examined by an Agent of the Cattle Bureau, and my

diagnosis confirmed, a price was agreed upon between the Agent and the owner, and the cow killed; and in each case the cow was found to be badly diseased.

I have examined more than thirty (30) horses as being suspicious cases of glanders. Of these I have put seven (7) cases in quarantine, and, after an Agent of the Cattle Bureau had examined them, they were killed, and afterwards the barns were disinfected by myself. This is a very much better condition than has prevailed here for the last few years, and, I think, is due to more care being taken at the auction rooms to prevent glandered horses being sold. I think the auction sales are responsible for nearly the whole of the glanders that occur in this city.

In the spring and summer we had a very serious condition here from rabid dogs. As soon as the chief of the Cattle Bureau ascertained that a dog's head, sent in by Dr. Jesse Viles to the Pathologist at Harvard Medical College, reacted to the test, he wrote me to look out for trouble from this dreaded disease, and it surely came. Afterwards the Chief came to Lowell and personally consulted with me as to the precautions to be taken to lessen the danger from this disease as much as possible. All the dogs showing any signs of the disease, which came to my attention, were immediately looked after, and if I thought they had the disease their heads were sent to Boston to be tested.

The Police Department very kindly seconded my efforts, building a gas tank so as to insure an easy death for the dogs, and all unlicensed and homeless dogs, or those without collars, were sent to the Police Station and asphixiated. During the year this Department has disposed of about five hundred (500) dogs, thus getting rid of so many dogs that were a constant menace to the public, being constantly on the street and subjects for

any rabid dogs to bite and thus become the source of further spreading of the disease. During the period there were more than twenty (20) cases, which, after looking up, I find there was no doubt but that the dogs had rabies, and there must have been many cases of which I did not hear.

Dr. Jesse Viles sent the heads of four (4) dogs to the State Pathologist, which proved positive. I sent four (4) heads that were positive, and also four (4) heads of dogs that were killed by the Police, of which they were not sure. Seven (7) dogs which had bitten people, I put in quarantine and kept under observation until there was no danger from the bite. I also held in quarantine for ninety (90) days, several dogs which were supposed to have been bitten by rabid dogs.

One of the very unfortunate incidents of the outbreak was the horrible death of Mr. Tilton and Mrs. Hodgman, after having taken the Pasteur treatment at the New York Board of Health Institute. It was very fortunate that more people were not bitten.

Respectfully submitted,

W. A. SHERMAN,
Inspector of Animals.

CASES OF CONTAGIOUS DISEASES REPORTED.

	1905	1904	1903	1902	1901	1900
Croup	203	272	272	667	803	157
Diphtheria, including						
Scarlet Fever	48	120	146	116	65	80
Measles	149	429	55	785	356	114
Typhoid Fever	56	48	238	83	70	85
Small Pox	24	5	11	54	12	23
	480	874	722	1705	1306	459

DEATHS FROM CONTAGIOUS DISEASES.

	1905	1904	1903	1902	1901	1900
Diphtheria, including						
Croup	20	34	34	76	117	27
Scarlet Fever	0	5	8	5	3	0
Measles	6	14	0	8	17	1
Typhoid Fever	17	17	26	16	18	17
Small Pox	0	1	0	4	0	0
	43	71	68	109	155	45

CASES OF DIPHTHERIA AND CROUP REPORTED TO THE BOARD
OF HEALTH FOR THE YEAR 1905.

	Diphtheria.		Croup.	
	Cases.	Deaths.	Cases.	Deaths.
January	42	2	3	1
February	14	0	1	3
March	11	1	2	0
April	14	1	0	0
May	10	0	1	1
June	10	1	1	0
July	13	1	0	0
August	6	0	1	1
September	12	2	1	0
October	24	1	0	0
November	14	1	2	2
December	21	2	0	0
	191	12	12	8

Mortality of Diphtheria, 6 per cent.

Mortality of Croup, 66 2-3 per cent.

MORTALITY OF DIPHTHERIA.

1894	33.0 per cent.	
1895	44.0 per cent.	Antitoxin Treatment
1896	43.0 per cent.	
1897	23.0 per cent.	
1898	23.0 per cent.	
1899	18.0 per cent.	
1900	10.0 per cent.	
1901	12.0 per cent.	
1902	9.5 per cent.	
1903	10.5 per cent.	
1904	11.0 per cent.	
1905	6.0 per cent.	

Lowell, Mass., Jan., 1906.

To the Members of the Board of Health,

Lowell, Mass.

Gentlemen:—I have the honor hereby to submit a report of the work done in the Bacteriological Laboratory during the year ending Dec. 31, 1905.

DIPHTHERIA.

SUMMARY OF CULTURES EXAMINED.

	For Diagnosis.		For Release.		No Result.	Whole Number Exam.
	Positive.	Negative.	Positive.	Negative.		
January	37	58	47	29	2	173
February	10	17	41	39	2	109
March	10	23	23	23		79
April	9	43	9	11	1	73
May	13	37	30	13		93
June	12	17	37	42	1	109

	For Diagnosis.		For Release.		No	Whole
	Positive.	Negative.	Positive.	Negative.	Result.	Number
						Exam.
July	11	12	27	10		60
August	7	13	19	15	1	55
September	10	8	14	7	1	40
October	21	19	34	13	1	88
November	11	47	20	27	1	106
December	15	50	30	16		111
	166	344	331	245	10	1096

USE OF ANTITOXIN.

	Cases.	Per cent.	Died.	Per. cent. of deaths.
Diphtheria	203			
Antitoxin used	178	88	18	10
Antitoxin not used	25	12	2	8

QUARANTINE PERIOD.

In 170 cases, the average time of quarantine was 21 days. The longest case lasted 47 days.

TUBERCULOSIS.

EXAMINATION OF SPUTUM.

	Positive.	Negative.	Whole Number Exam'd.
January	21	22	43
February	12	15	27
March	11	15	26

	Positive.	Negative.	Whole Number Exam'd.
April	7	26	33
May	10	33	43
June	7	21	28
July	9	10	19
August	11	32	43
September	11	27	38
October	11	27	38
November	18	22	40
December	11	37	48
	139	287	426

TYPHOID FEVER.

EXAMINATION OF BLOOD FOR WIDAL REACTION.

	Positive.	Negative.	No Result.	Whole Number.
January	3	9		12
February	5	9		14
March	3	7		10
April	2	15		17
May		8	1	9
June	5	6		11
July	8	2		10
August	2	5		7
September	12	10		22
October	7	10		17
November	3	10		13
December	4	9		13
	54	100	1	155

CEREBRO-SPINAL MENINGITIS.

Late in February of this year the deaths of two boys in one family, of meningitis, after a brief illness, were the first to arouse suspicion that the epidemic of the deadly disease known as Spotted Fever or Epidemic Cerebro-Spinal Meningitis, which for several months had been spreading northward from New York, had reached Lowell.

The two patients, one ten years old, the other four, died the same day, February 24th. The attention of the Board of Health was called to the suspicious character of the cases and an inspection of the second case was made before death. The following day, with the permission of the parents, a post mortem examination was made of the two bodies, of which the following report was made:

“Mr. H. H. Knapp, Agent Board of Health,
Lowell, Mass.

Dear Sir:—In accordance with your instructions, with the assistance of Dr. Forster Smith, City Physician, I made an examination of the bodies of Robert and George Arnold at the rooms of Mr. Brooks at 1.30 P M., Feb. 25th, to determine, if possible, the exact cause of death.

Robert Arnold, 10 years old, died at the City Hospital, Feb. 24th, George Arnold, 4 years old, whom I had seen in a moribund condition during the afternoon of Feb. 24th, died in the evening. Robert Arnold had been sick probably forty-eight hours and George Arnold only twenty-four hours before death.

The examination, to avoid delay, had to be limited to the brain and spinal cord.

On opening the spinal canal in the first case and cutting through the Dura Mater of the Cord, the Cerebro-Spinal fluid gushed out turbid and milky. Microscopic preparations and cultures were made from it at once.

On opening the skull and laying the brain bare, the vessels on its surface were found engorged and the convolutions flattened. In the fissures a yellow sero-fibrinous exudate was visible.

The same conditions were found in the examination of the second body, that of George Arnold, except that the cerebro-spinal fluid was not so turbid as in the first case.

Portions of the brain and spinal cord were also taken for later examination.

The examination of the slides made from the fluid showed the presence of a *Diplococcus* in the leucocytes, sometimes in the nucleus itself, which is discolored by the Gram method.

The cultures made on blood-serum, at the end of twenty-four hours, showed round, shining, colorless, convex, moist looking colonies. At the end of forty-eight hours the colonies became confluent. Microscopic examinations of the cultures showed an organism corresponding to those found on the slides.

This organism is *Diplococcus Intra-cellularis Meningitidis* found in the Cerebro-Spinal fluid of cases of to Epidemic Cerebro-Spinal Meningitis.

The deaths of these two children were therefore due to Epidemic Cerebro-Spinal Meningitis.

T. B. SMITH, M. D."

It had been announced in New York and Hartford that the treatment of such cases by lumbar puncture and the administration of the antitoxin for Diphtheria had

been followed, apparently, by relief and cure in a number of cases. The Board of Health therefore, as more and more cases were reported, offered to supply antitoxin for their treatment, and when requested, the Bacteriologist was sent to perform lumbar puncture.

In 21 cases reported as Cerebro-Spinal Meningitis clinically, and in which Diphtheria Antitoxin was used, there were 13 deaths. In nine of these cases in which the clinical diagnosis was confirmed by lumbar puncture and the bacteriological examination of the fluid, there were seven deaths.

In the Lowell Hospital the new treatment was used in a series of eight consecutive cases. By lumbar puncture fluid was obtained in seven cases, in six of which the Diplococcus was found. In the case in which it was not found, the puncture was made after death. In two cases the puncture was repeated daily for several days. Diphtheria antitoxin was administered in quantities varying from 10,000 to 60,000 units in repeated doses as long as the patient remained alive. In three cases it was injected directly into the Spinal canal through the puncture needle after the fluid had been withdrawn.

Of the eight cases so treated, only one recovered. Lumbar puncture gave only temporary relief and there was a rapid re-accumulation of the fluid. When the antitoxin was given, the patient became quiet for four to six hours. No difference in degree or quickness of effect was noticed, whether it was injected into the tissues or into the Spinal Canal. The effect on temperature and pulse was uncertain and brief.

The antitoxin treatment was abandoned generally throughout the city by the end of April.

A number of the cases which occurred during the epidemic were of especial interest.

A child of three years, after receiving 19,500 units of antitoxin, recovered from all the clinical symptoms of the disease, but sank into a condition of marasmus and died at the end of two months.

A boy of 14 years in whom the diagnosis was confirmed by lumbar puncture and examination of the fluid, received 160,500 units of antitoxin and is reported to have made a complete recovery.

A man of 52 years died after an illness of eight hours.

A girl of 11 years presented all the symptoms of Typhoid Fever for a week, at the end of which time the occurrence of stiffness of the neck and a slight convulsion excited suspicion. Lumbar puncture was performed and the *Diplococcus* found in the fluid. This patient died in ten days.

A woman of 38 years became unconscious while sitting in an employment office. She was removed to the hospital in a state of coma. No history of her case could be obtained, and the diagnosis was in doubt until a lumbar puncture showed the presence of the *Diplococcus* in the fluid. This patient died in two days.

MALARIA.

During the year only one specimen of blood was sent in for examination for the presence of the Malarial Parasite. This proved to be positive.

Other general examinations were made for the anthrax bacillus, for the gonococcus, and in cases of septic wounds and morbid fluids.

THOMAS B. SMITH, M. D.,
Bacteriologist.

Our expense at the Lowell Hospital for 1905 was \$245.87 as compared with \$490.49 for 1904.

Katie Shannon	\$ 24.29
Alice Hunter	41.43
Evangelos Barasparos	10.00
Michael Riley	1.43
Sadie Powers	25.71
Marie McCormack	5.71
John McGillicuddy	7.14
Lizzie Osborne	4.29
Maggie Ryan	2.86
Frank Boyle	20.29
Hannah Gudmonson	31.43
Sarah Koffman	29.86
John McLaughlin	17.14
Beryle Taylor	24.29
	\$245.87

SMALL POX, 1905.

NAME.	ADDRESS.	LENGTH OF SICKNESS.	
1. Blanche Ayotte age 4	83 Salem St.,	May 8	May 27
2. Aurae Toupin..... " 8	386 Adams St.,	" 12	June 7
3. Alderic Martineau... " 3	391 " "	" 13	May 27
4. Alderic Tessier..... " 6	389 " "	" 13	" "
5. Cecile Gagnon..... " 4	83 Salem St.,	" 21	June 10
6. Alice St. John " 5	115 Aiken St.,	" 23	" "
7. Alida Dubois..... " 21	86 Prince St.,	" 24	" 7
8. Alphonse Toupin " 5	386 Adams St.,	" 24	" "
9. Mary L. Plouff " 24	83 Salem St.,	" 26	" 16
10. Georgianna Dubois .. " 22	86 Prince St.,	June 5	" 19
11.*Simeon Giguere..... " 30	10 Hall St.,	" 12	" 26
12. Joseph Nadeau " 16	165 Lakeview Av.,	" 24	July 7
13. Joseph Dion " 38	111 Prince St.,	" 26	" 10
14. Yvonne Marchaud ... " 4	107 " "	" 28	" 7
15. Joseph St. Onge " 19	162 Colburn St.,	" 28	" 17
16. Rosario Dube..... " 3	110 Prince St.,	" 30	" 14
17. Louis Cote..... " 30	5 Dutton St.,	July 6	" 17
18. Blanche Soumis..... " 3	832 Lakeview Av.,	Aug. 8	Aug. 26
19. Alexander Pouliot ... " 13	830 " "	" 13	Sept. 1
20. Albert Soumis..... " 14	832 " "	" 20	" 1
21. Alma Ouelette..... " 6	836 " "	" 29	" 29
22. Pamela Ouelette " 32	" " "	Sept. 8	" 29
23. Philomene Fontaine.. " 33	" " "	" 10	" 23
24. Yvonne Ouelette " 5	" " "	" 11	" 29

* Brought into Court June 29 and fined \$20.00 for concealment.

Blanche Ayotte, the first patient under our care, contracted the disease from the Paquette family, 2 rear Salem street. Eva Paquette had passed through five weeks' sickness of what the attending physician diagnosed as chicken pox, as she could not give any history of exposure and there were no constitutional symptoms present. He suggested that he should be called again, but received no encouragement and never saw the patient again.

It seems certain that she had at the time small pox and has since given it to a child at the same house. Both have so far recovered as not to be now a source of danger, but it is very probable that other cases may result during the next week or ten days. This house has been thoroughly fumigated, whitewashed and painted since the discovery of the probable origin of the Ayotte exposure."

The above quotation is a transcript on the check book for small pox, kept at the office of the department, and the prediction was verified by the discovery and exposure of seventeen or more cases, all family relations of the original victim. While the remaining seven cases came from a different origin, they were all contracted by negligent contact.

If the City of Lowell is threatened in the future by a small pox epidemic, it will come from the large French population that are not vaccinated and a large majority of whom care nothing more for small pox than for any other disease, and spread it indiscriminately among associates and neighbors. The Statutes of Massachusetts compel the children before entering the public schools to get from the Health Department a certificate that the bearer has passed a successful vaccination, but it is interpreted by the French authorities as not meaning a parochial school, and notwithstanding the fact that the

Health Department at the city's expense vaccinated all the inmates of two or more of them, and were promised that every year after they would have us employ the same safeguard to new scholars seeking entrance, our experience in the 1905 epidemic leads us to believe that more than one-half of the pupils have not any protection by vaccination to themselves or associates. If the church and school authorities would insist that every new applicant for school tuition should present some tangible evidence of vaccination or send them to the office of the Board of Health for immediate treatment between 4 and 5 P. M. daily, it would save many lives in the future years.

SMALL POX BILLS.

Almshouse Pauper Dept.	\$123.20
Almshouse Pauper Dept.	128.18
Ayotte, Edward	8.50
Brooks, J. S.	14.36
Brooks, J. S.	9.32
Brooks, J. S.	20.09
Brown, Spencer	10.00
Bates, F. A.	25.70
Bates, F. A.	4.70
Brady, John	4.00
Brady, John	7.00
Carter, C. E.	15.10
Carter, C. E.	35.35
Carter, C. E.	25.45
Cawley, Edward	12.65

Amount carried forward \$443.60

<i>Amount brought forward</i>	\$443.60
Cawley, Edward	14.00
Coburn, C. B.	1.90
Doherty, J. J.	16.00
Fay, Thomas, Estate	3.00
Gilbride's	3.00
Gilbride's	1.00
Girard, H. C.	1.40
Girard, H. C.	1.55
Hart, D. J.	4.45
Hart, D. J.	4.70
Hart, D. J.	13.10
Hutchins, G. E.	11.50
Lynn Board of Health	289.44
Livingston, Dr. E. G.	390.00
Livingston, Dr. E. G.	105.00
Livingston, Dr. E. G.	166.00
Livingston, Dr. E. G.	147.00
Lang, R. G.	2.25
McAvinnue, Dr. Frank	189.70
McAvinnue, Dr. Frank	94.80
Merrimack Clothing Co.	15.00
Namack, Mrs. Annie	7.00
O'Sullivan Bros.	3.00
Public Buildings Appropriation	4.94
Sirk, Saimon	5.50
Sirk, Saimon	2.50
Stanley Coal & Wood Co.	12.00
Stanley Coal & Wood Co.	26.00
Sparks, J. T.	9.90
Saunders, J. J.	2.25
Saunders, J. J.	1.94
Saunders, J. J.	2.30

Amount carried forward\$1998.72

<i>Amount brought forward</i>	\$1,998.72
Tarte, J. N.	213.10
Tarte, J. N.	131.77
Tarte, J. N.	135.74
Yard Labor	494.00
Yard Labor	323.75
Total	\$3,297.08

ANALYSIS OF SMALL POX BILLS, 1905.

Medical Services (2 doctors)	\$1,092.50
Care and nursing at Small Pox Hospital	817.75
Sundries at Small Pox Hospital	533.13
Sundries at Quarantined Houses	530.76
Rent at Quarantined Houses	15.00
Clothing destroyed	8.50
Fumigation	10.00
City of Lynn for care and attendance of Small Pox patient with settlement in Lowell	289.44
	\$3,297.08

COST OF SMALL POX.

1885, 4 cases	\$1,603.54
1894, 8 cases	7,850.86
1899, 2 cases	1,038.52
1900, 23 cases	4,756.72
1901, 8 cases	982.33
1902, 53 cases	6,626.20
1903, 11 cases	1,000.00
1904, 5 cases	1,010.02
1905, 24 cases	3,297.08

SCARLET FEVER.

	1905	1904	1903	1902	1901	1900
Cases reported	48	120	146	116	65	80
Deaths	0	5	8	5	6	0
Per cent total cases	0	4	5	4	9	0

	Reported Cases.	Deaths.
January	5	0
February	1	0
March	6	0
April	5	0
May	2	0
June	3	0
July	2	0
August	1	0
September	5	0
October	6	0
November	9	0
December	3	0
	48	0

MEASLES.

	Reported Cases.	Deaths.
January	2	0
February	4	0
March	6	1
April	14	1
May	27	0
June	29	0
July	5	1
August	3	0
September	2	0

	Reported Cases.	Deaths.
October	10	0
November	12	0
December	35	3
	149	6

TYPHOID FEVER.

	Reported Cases.	Deaths.
January	2	2
February	1	2
March	3	1
April	0	0
May	0	2
June	2	2
July	6	2
August	4	2
September	12	1
October	11	1
November	2	0
December	13	2
	56	17

TYPHOID FEVER.

	Population.	Reported Cases.	Deaths.
Total 1905	94,889	56	17
Total 1904	104,402	48	17
Total 1903	101,959	238	26
Total 1902	99,574	83	16
Total 1901	94,969	70	18
Total 1900	94,969	85	17
Total 1899	90,114	57	17

		Population.	Reported Cases.	Deaths.
Total	1898	87,000	119	24
Total	1897	87,000	105	18
Total	1896	85,700	178	36
Total	1895	84,359	172	33
Total	1894	83,026	282	50
Total	1893	81,694	160	53
Total	1892	80,361	373	75
Total	1891	79,029	293	77
Total	1890	77,696	454	123

A decrease from 1.58 per thousand inhabitants to .18 in sixteen years.

PLACES OF DEATHS.

Ward 1	1
Ward 2	0
Ward 3	1
Ward 4	1
Ward 5	0
Ward 6	2
Ward 7	3
Ward 8	0
Ward 9	0
Almshouse	1
Lowell Hospital	6
St. John's Hospital	2
	17
Males	12
Females	5
Oldest	44
Youngest	17

DEATHS FROM CHOLERA INFANTUM.

	1905	1904	1903	1902	1901	1900
January	1	0	0	0	0	0
February	0	0	1	0	0	0
March	0	0	0	0	1	0
Total first quarter .	1	0	1	0	1	0
	1905	1904	1903	1902	1901	1900
April	0	1	0	0	0	0
May	3	0	1	1	1	0
June	5	2	3	3	4	5
Total second quarter	8	3	4	4	5	5
	1905	1904	1903	1902	1901	1900
July	52	47	61	59	27	66
August	24	37	63	22	38	28
September	11	22	21	20	24	20
Total third quarter	87	106	145	101	89	114
	1905	1904	1903	1902	1901	1900
October	4	3	7	1	4	10
November	2	1	0	1	0	1
December	2	0	0	0	0	1
Total fourth quarter	8	4	7	2	4	12
Total for the year	104	113	157	107	99	131

PRINCIPAL CAUSES OF DEATH.

	1905	1904	1903	1902	1901	1900
Cholera Infantum and other						
Diarrhœal Diseases	271	243	176	120	120	142
Phthisis and other Tu-						
beculoses	170	143	132	164	170	186

	1905	1904	1903	1902	1901	1900
Pneumonia and Bron-						
chitis	246	247	263	278	310	282
Congenital Debility ...	116	148	140	172	156	137
Heart Disease	198	132	153	219	197	190
Typhoid Fever	17	17	26	16	18	17
Apoplexy and Paralysis	123	118	75	140	106	108
Old Age	48	52	56	34	40	40
Diseases of the Brain						
(unclassified)	31	18	92	35	49	41
Convulsions	34	19	25	43	45	41
Diseases of the Kidneys	90	85	104	77	82	73
Meningitis	37	59	63	73	67	65
Diphtheria and Croup.	20	34	34	76	117	27
All other Causes	498	421	559	488	561	500
Total for the year..	1899	1736	1898	1935	2038	1849

VITAL STATISTICS.

	1905	1904	1903	1902	1901	1900
Deaths, male	954	860	945	971	1010	947
Deaths, female	945	876	953	964	1028	902
	1899	1736	1898	1935	2038	1849

Children under one year	495	498	554	519	539	512
Children under two yrs.	596	590	660	618	657	608
Children under five yrs.	688	673	738	738	799	687
Per cent of total deaths						
under five years ...	36.2	38.8	38.8	38.1	39.2	37.1

Birthplace.	Of Deceased.	Of Parents.
Lowell	877	198
Massachusetts, elsewhere	109	159
Other states	230	475
Ireland	327	1194
Canada	194	942
Great Britain	107	288
Other Countries	45	328
Unknown	10	214
Total	1899	3798

PLACES OF DEATH.

Ward 1	134
Ward 2	146
Ward 3	159
Ward 4	173
Ward 5	199
Ward 6	181
Ward 7	347
Ward 8	152
Ward 9	133
Almshouse	131
Lowell Hospital	44
St. John's Hospital	64
Lowell General Hospital	35
Emergency Hospital	1
	1899
Still Births during the year	135

PLACES OF INTERMENT.

St. Patrick's Cemetery	850
Edson Cemetery	364
Lowell Cemetery	64
St. Joseph's Cemetery	438
St. Peter's Cemetery	23
Other Cemeteries	6
Removed	154
	1899

DEATHS IN 1905, COMPARED WITH 1904.

	Decrease.	Increase.
Cholera Infantum and other Diarrhœal Dis-		
eases		28
Phthisis and other Tuberculoses		27
Pneumonia and Bronchitis	1	
Congenital Debility	32	
Heart Disease		66
Typhoid Fever		
Apoplexy and Paralysis		5
Old Age	4	
Diseases of the Brain (unclassified)		13
Convulsions		15
Diseases of the Kidneys		5
Meningitis	22	
Diphtheria and Croup	14	
All other causes		77
	73	236
Total increase		163

DEATH RATE.

	Year.	Population.	Deaths.	Death Rate.
Population, census	1890	77,696	1959	25.21
estimated . . .	1891	79,029	1972	24.95
estimated . . .	1892	80,361	2224	27.67
estimated . . .	1893	81,694	2094	25.62
estimated . . .	1894	83,026	1775	21.28
census	1895	84,359	1857	22.01
estimated . . .	1896	85,700	1901	22.18
estimated . . .	1897	87,000	1855	21.33
estimated . . .	1898	87,000	1808	20.78
estimated . . .	1899	90,114	1848	20.50
census	1900	94,969	1849	19.47
estimated . . .	1901	94,969	2038	21.45
estimated . . .	1902	99,574	1935	19.43
estimated . . .	1903	101,959	1898	18.61
estimated . . .	1904	104,402	1736	16.62
census	1905	94,889	1899	20.02

MORTALITY REPORT FOR THE CITY OF LOWELL FOR THE YEAR ENDING 1905

Population 94,845.

Rate per 1,000, 20.02

CAUSES OF DEATH.	Total Mortality for 1905	AGE																				SEX					
																						Males	Females				
		Under 1 year	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	Total under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years	65 years and under 70 years	70 years and under 75 years	75 years and under 80 years	80 years and under 85 years	85 years and under 90 years	90 years and over		
DEATHS FROM ALL CAUSES																											
Deaths from all causes.....	1899	495	101	37	30	25	688	41	28	44	71	84	80	91	72	84	96	97	103	95	93	55	46	27	4	954	945
General Diseases.....	360	29	17	11	8	6	71	7	5	14	29	38	37	30	22	23	17	22	14	12	6	7	4	2	0	163	197
Diseases of the Nervous System and of the Organs of Sense.....	286	44	20	14	12	8	98	13	3	10	6	7	4	8	5	10	17	17	25	19	19	5	9	3	0	154	132
Diseases of the Circulatory Apparatus.....	230	11	31	4	7	4	101	11	3	2	7	6	8	13	15	13	18	22	24	24	29	17	14	6	1	99	131
Diseases of the Respiratory Apparatus.....	275	55	31	4	3	4	101	11	6	11	14	12	17	9	16	13	17	15	22	7	6	2	5	0	140	135	
Diseases of the Digestive Apparatus.....	381	223	30	3	3	4	263	5	3	5	6	8	10	8	6	7	16	6	7	12	8	6	4	1	0	205	176
Diseases of the Genito-Urinary Apparatus.....	99	1					1	1	1	2	5	3	4	6	11	11	11	8	13	5	9	3	4	1	0	50	49
Puerperal State.....	15						1																				
Diseases of the Skin and Cellular Tissue.....	5	1					1							3		1				1	1	1	0	1	0	3	2
Diseases of the Organs of Locomotion.....	3	2	1				3																			8	1
Malformations.....	12						12																			65	51
Early Infancy.....	116	114	1	1			116											1	2	4	12	10	8	8	3	11	37
Old Age.....	48																									53	10
Affections produced by External Causes.....	63	2	1	4	0	3	10	10	2	5	0	3	4	6	4	3	4	4	2	3	2	0	1	0	0	1	5
Ill-defined Diseases.....	6	1					1	1	2	0	0	1							1							1	

SEX	Males		Females	
	Under 1 year	1 year and under 2 years	Under 1 year	1 year and under 2 years
AGE	Under 1 year	1 year and under 2 years	Under 1 year	1 year and under 2 years
	2 years and under 3 years	3 years and under 4 years	2 years and under 3 years	3 years and under 4 years
	4 years and under 5 years	Total under 5 years	4 years and under 5 years	Total under 5 years
	5 years and under 10 years	10 years and under 15 years	5 years and under 10 years	10 years and under 15 years
	15 years and under 20 years	20 years and under 25 years	15 years and under 20 years	20 years and under 25 years
	25 years and under 30 years	30 years and under 35 years	25 years and under 30 years	30 years and under 35 years
	35 years and under 40 years	40 years and under 45 years	35 years and under 40 years	40 years and under 45 years
	45 years and under 50 years	50 years and under 55 years	45 years and under 50 years	50 years and under 55 years
	55 years and under 60 years	60 years and under 65 years	55 years and under 60 years	60 years and under 65 years
	65 years and under 70 years	70 years and under 75 years	65 years and under 70 years	70 years and under 75 years
	75 years and under 80 years	80 years and under 85 years	75 years and under 80 years	80 years and under 85 years
	85 years and under 90 years	90 years and over	85 years and under 90 years	90 years and over
	Total Mortality for 1905			
	CAUSES OF DEATH			

[illegible][illegible]

I. General Diseases—Continued.

[illegible]

[illegible][illegible]

77. Pericarditis.....	1	1	1
78. Endocarditis, acute.....	2	2	3
79. Organic diseases of the heart.....	148	16	17
	41	5	8
	2	1	4
	1	1	1
	7	1	3
	19	2	3
	22	2	2
	64	16	11
	84	17	8
	1	1	1

CAUSE OF DEATH	Total Mortality for 1905	AGE																SEX.										
		Under 1 year	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years	65 years and under 70 years	70 years and under 75 years	75 years and under 80 years	80 years and under 85 years	85 years and under 90 years	90 years and over	Males	Females		
III. Diseases of the Circulatory Apparatus—Continued.																												
80. Angina pectoris.....	7																										2	5
81. Affections of the arteries (atheroma, aneurism, etc.).....	23																										12	11
82. Embolism and thrombosis.....	1																										1	1
83. Affections of the veins (varices, hemorrhoids, phlebitis, etc.).....	1																										1	1
84. Affections of the lymphatic system (lymphangitis, etc.).....	1																										1	1
85. Hemorrhages.....	7	3																									1	6
86. Other affections of the circulatory apparatus.....																											99	131
Total of circulatory apparatus.....	230	11																									6	131
IV. Diseases of the Respiratory Apparatus.																												
87. Diseases of the nasal fossae.....																												
88. Affections of the larynx.....																												
89. Affections of the thyroid body.....																												
90. Bronchitis, acute.....	46	30	9	2																							23	23
91. Bronchitis, chronic.....	25	5	11																								10	15
92. Broncho-pneumonia.....	29	18	10	2	6	2	38																				16	13
93. Pneumonia.....	146	18	10	2	6	2	38																				74	72
94. Pleurisy.....	10	2																									5	5
95. Pulmonary congestion and apoplexy.....	11	2	1																								5	6
96. Gangrene of the lung.....																											5	
97. Asthma.....	5																										5	
98. Emphysema, pulmonary.....																												
99. Other diseases of the respiratory apparatus (phthisis excepted).....	3																										2	1
Total respiratory apparatus.....	275	55	31	4	7	4	101	1	1	6	11	17	9	16	13	17	15	22	7	6	2	5	0			140	135	

V. Diseases of the Digestive Apparatus.

[illegible]

VI. Diseases of the Genito-Urinary Apparatus and its Adnexa.

[illegible]

VI. Diseases of the Genito-Urinary Apparatus and its Adnexa—Continued.

134.	Accidents of Pregnancy.....	1		1
135.	Hemorrhage, puerperal.....	1		1
136.	Other accidents of labor.....	1		1
137.	Septicemia, puerperal.....	8		8
138.	Albuminuria and puerperal eclampsia.....	5		5
139.	Plegmasia alba dolens, puerperal.....	1		1
140.	Other puerperal accidents-sudden deaths.....	3		3
141.	Puerperal diseases of the breast.....	7		7
	Total puerperal.....	4	1	3
		15		15

142. Gangrene.....

143. Furuncle (carbuncle).....

144. Phlegmon, warm abscess.....

145d. Other diseases of the skin and its adnexa

Total skin tissue.....

[illegible]

CAUSES OF DEATH	AGE																								SEX	
	Total Mortality for																								Males	Females
	1905	Under 1 year	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	Total under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years	65 years and under 70 years	70 years and under 75 years	75 years and under 80 years	80 years and under 85 years	85 years and under 90 years	90 years and over	
XIII. Affections Produced by External Causes—Continued.																										
171. Electrical disturbances.....	1						1	1	10	2		1				1									1	
172. Accidental submersion.....	14																								14	
173a. Infanticide.....																										
174. Absorption of deleterious gases (suicide excepted).....	6	1						1		1		1	1	1			1				2				6	
175. Other acute poisonings.....	2																								2	
176. Other external violence.....	2	2	1	4	0	3	10	2	5	0	3	4	6	4	3	4	4	1	2	3	2	0	1	0	0	53
Total affections, etc.....	63																								10	
XIV. Ill-defined Diseases.																										
177. Dropsy.....	1						1																		1	
178. Sudden death.....																										
179. Non-specified or ill-defined causes of death.....	5	1				1	1	2			1							1							1	
Total ill-defined diseases.....	6	1				1	1	2			1								1						1	

COLLECTION OF ASHES.

	1995	1904	1903
January	2795 loads	2260 loads	1727 loads
February	2409 loads	2360 loads	1564 loads
March	2124 loads	2378 loads	1804 loads
April	2023 loads	2236 loads	1725 loads
May	1762 loads	1825 loads	1506 loads
June	1455 loads	1329 loads	1300 loads
July	1300 loads	1056 loads	1331 loads
August	1284 loads	1160 loads	1200 loads
September	1339 loads	1200 loads	1202 loads
October	1707 loads	1349 loads	1414 loads
November	1753 loads	1652 loads	1537 loads
December	1985 loads	1997 loads	2033 loads
	21,936 loads	20,802 loads	18,343 loads

Cost of Collection.

Labor Pay Roll

1891	\$ 8,001.19
1892	9,857.42
1893	11,542.94
1894	12,087.93
1895	10,591.40
1896	11,311.25
1897	12,793.15
1898	11,209.70
1899	10,903.30
1900	10,665.35
1901	10,651.28
1902	10,454.80
1903	9,691.50
1904	10,714.95
1905	11,035.00

606 loads paper.

MARKET AND HOSPITAL REFUSE BURNED AT
CREMATOR JAN. 1, 1905, TO 1906.

643 tons market refuse.
21 tons hospital bandages.
64 dogs.
112 cats.
43 mattresses.
11 loads bed clothing.
2 pillows.
1 lounge.
1 pig.
2 hens.

NUMBER OF LOADS SWILL COLLECTED.

	1905	1904	1903
January	340	353	333
February	312	321	282
March	339	328	291
April	295	298	296
May	355	315	308
June	352	329	328
July	346	335	335
August	410	443	369
September	476	480	429
October	398	386	384
November	347	357	317
December	353	407	359

4323 4352 4031

Total collections for 1905 4323 loads
Total collections for 1904 4352 loads
Total collections for 1903 4031 loads

Total collections for 1902	4035 loads
Total collections for 1901	3861 loads
Total collections for 1900	4217 loads

SWILL ACCOUNT.

	1905	1904	1903	1902
January	\$ 347.25	\$253.12	\$ 331.25	\$ 203.00
February	279.45	218.87	228.12	222.00
March	247.50	241.88	284.12	180.00
April	264.00	232.50	259.74	220.50
May	257.50	201.88	212.99	308.88
June	254.92	251.88	251.23	228.13
July	304.25	256.75	248.74	255.00
August	277.50	310.00	289.36	308.62
September	335.00	372.75	319.99	257.49
October	282.50	326.93	286.23	322.87
November	236.25	321.25	242.49	234.23
December	270.00	199.60	220.61	343.00
Swill Permits..	300.00	185.00	125.00	161.00
Swill Licenses...		135.00		
	\$3656.12	\$3507.41	\$3299.87	\$3244.72
Swill Exchanged				
for Hay ...	\$ 2079.38	2047.84	1584.72	883.77
	\$5735.50	\$5555.25	\$4884.59	\$4128.49

SWILL LICENSES.

Adams, Harry F.	Chelmsford Centre
Bertrand, Wm.	Pelham
Bouchard, A.	Dracut

SWILL LICENCES—Continued.

Barnes, H. W.	Dracut
Bruorton, P. A.	Billerica
Barnes, C. J.	Dracut
Benoit, B.	Dracut
Barie, Joseph	North Billerica
Cogger, Patrick	Dracut
Cummings, O. J.	Tyngsboro
Clairmont, H. C.	Dracut
Coburn, O. J.	Dracut
Coburn, O. P.	Dracut
Choquette, E. H.	Dracut
Carr, Jas. B.	Chelmsford
Carr, John	Lowell
Daigneault, Octave	Dracut
Denault, J. M.	Dracut
Daigle, Louis	Dracut
Davis, J. A.	Dunstable
Eaton, J. P.	Chelmsford Centre
Foye, C. A.	Dracut
Guthrie, C. E.	Lowell
Gourgeon, Thos.	Dracut
Gould, E. A.	Dracut
Gagnon, Joseph	Pelham
Graves, J. M.	Dracut
Hayes, J. R.	Dracut
Hamblett, C. A.	Dracut
Haskell, Fred U.	Dracut
Humphrey, G. W.	Chelmsford
Independent Refining Co.	Dracut
Kent, C. D.	Pelham
Lacombe, H.	Chelmsford
Lowell Rendering Co.	Lowell
Lavesque, Frank	Dracut

SWILL LICENSES—Continued.

McDonald Bros.	Lowell
Maker, R. N.	Lowell
Matheson, C. W.	Lowell
Noel, J. B.	Chelmsford
Nichols, Fenwick	Dracut
Paiva, Antonio	Lowell
Perham, E. C.	Chelmsford
Peabody, F. L.	Pelham
Remmes, Mrs. Nellie M.	Lowell
Riggs, Wm. E.	Wigginville
Ryan, Joseph	Chelmsford
Richford Bros.	Chelmsford
Snow, R. D.	Dracut
Silk, F. C.	Tewksbury
Shugrue, Charles	Westford
Spaulding, G. E.	Chelmsford
Soucraft, Nelson	Billerica
Tully, J. P.	Dracut
Wright, C. A.	Billerica
Whitman & Pratt Rendering Co.	Lowell

Cost of Collecting Swill. Labor Pay Roll.	Disposition of Swill.	Income from Swill.	Cost of Burning.	Amount Burned.	Total Cost Collection and Cremation of Swill and Garbage.
1884. No Analysis	Sold	\$2,671 85			
1885. " "	"	3,711 38			
1886. " "	"	4,342 00			
1887. " "	"	3,604 00			
1888. " "	"	2,739 85			
1889. " "	"	2,948 52			
1890. " "	"	3,166 00			
1891. \$6,000 00	"	3,945 57			
1892. 5,593 02	Burned	3,239 92	Cost of Cremator. [\$8,000 00]		\$13,593 02
1893. 7,022 66	"		7,670 77	3500 tons.	14,693 43
1894. 7,122 00	"		5,742 69	3486 "	12,864 69
1895. 7,035 97	"		3,662 53	2750 "	10,698 50
1896. 7,064 67	"		3,543 34	2810 "	10,408 01
1897. 7,234 76	Part Burn'd	2,369 99	2,612 07	2629 "	9,846 07
1898. 7,758 20	and	2,445 40	1,644 21	874 "	9,302 41
1899. 7,193 30	Part Sold.	3,547 00	1,397 86	105 "	8,591 16
1900. 7,083 30	All Sold	{ Cash 3,368 00		109 "	8,177 95
		{ Hay 840 72	1,094 65	35 "	
		{ Cash 2,835 20		{ 347 tons	7,404 64
1901. 7,027 75	"	{ Hay 780 04	1,081 14	{ Markets	
		{ Buggy 83 00			
		{ Manure 32 00			
1902. 7,259 00	"	{ Cash 3,244 72		{ 11 Tons	
		{ Hay 883 77	1,166 69	{ Swill	8,425 69
		{ Cash 3,299 87		{ 415 Tons	
1903. 8,178 93	"	{ Hay 1,584 72		{ Markets	
		{ Manure 100 95	1,191 86	{ 600 Tons	
		{ Cash 3,507 41		{ Markets	9,370 79
1904. 8,324 70	"	{ Hay 2,047 84	992 92	{ 303 Tons	
		{ Cash 3,656 12		{ Markets	9,317 62
1905. 8,318 50	"	{ Hay 2,079 38	1,101 20	{ 664 Tons	
				{ Markets	9,419 70

1905. FINANCIAL STATEMENT.

EXPENDITURES.

Pay Rolls. Office.

January	\$ 552.00
February	552.00
March	552.00
April	690.00
May	552.00
June	552.00
July	690.00
August	552.00
September	690.00
October	552.00
November	552.00
December	698.75
	\$7,184.75

Pay Rolls. Yard.

January	\$ 2,325.80
February	2,317.90
March	2,326.10
April	2,929.90
May	2,245.80
June	2,202.40
July	2,671.60
August	2,138.00
September	2,727.75
October	2,220.45
November	2,197.63
December	2,847.28
	\$29,150.61

Small Pox	817.75
	\$29,968.36

ANALYSIS OF PAY ROLLS OF 1905 COMPARED WITH 1904.

	1905	1904	Decrease.	Increase.
Ashes	\$11,035.00	\$10,714.95		\$320.05
Swill	8,318.50	8,324.70	\$6.20	
Alleys and Dumps	3,822.60	3,554.05		268.55
General In- spection	1,014.00	2,041.00	1,027.00	
Contagion In- spection	1,368.75	1,281.00		87.75
Repairs		4.50	4.50	
Inspectors of Plumbing	2,184.00	1,099.00		1,085.00
Blacksmith	892.76	797.50		95.26
Stable	2,281.25	2,297.56	16.31	
Agent	1,825.00	1,830.00	5.00	
Registrar	624.00	628.00	4.00	
Cremator	704.25	706.50	2.25	
Small Pox	817.75	163.75		654.00
Fumigation	818.75	816.00		2.75
Foreman	1,277.50	1,257.75		19.75
Meat Inspector	169.00	156.00		13.00
	\$37,153.11	\$35,672.26	\$1,065.26	\$2,546.11
Total Increase			\$ 1,480.85	

ANALYSIS OF BILLS, 1905.

OFFICE SUNDRIES.

Advertising	\$ 35.00
Bacteriological Dept.	126.16
Culture Taking	186.50

ANALYSIS OF BILLS, 1905—Continued.

Crematory	75.21
Express	11.10
Fumigating Supplies	110.56
Insurance	25.00
Legal Services	47.97
Lowell Hospital	245.87
Massachusetts Board of Health	8.00
Malden Board of Health	25.00
Medical Services	405.00
Mileage	20.25
Printed Supplies	147.70
Printing Annual Report	79.06
Rent of Cremator	150.00
Sundries	149.49
New Sleigh	65.00
Services of Engineering Dept.	14.70
Stamps and Stamped Envelopes	105.90
New Typewriter	65.00
Telephone	14.61
Vaccine	93.13
	\$2,206.21

YARD SUNDRIES.

Board of Health Signs	\$ 10.62
Blacksmith's Supplies	406.43
Canvas Covers	40.00
Cremator	171.74
Corn and Meal	209.33
Electric Lights	27.51
Fumigating Supplies	6.56
Harnesses (New)	133.25
Harness Supplies	105.23

ANALYSIS OF BILLS, 1905—Continued.

Hardware	63.76
Hay	539.13
Four (4) new horses	1,095.00
Lumber	139.44
Oats	2,364.51
Straw	333.49
Repairing Harnesses	143.25
Sundries	613.70
Steel Bodies for Garbage Wagons....	146.00
Repairing Wagons	13.50
Repairs	10.34
Use of Horses	199.50
Veterinary Services	82.00
Water Department	96.70
	\$6,950.99

INCOME TRANSFERRED TO GENERAL FUND.

1905.

Swill	\$ 3,356.12
Waste Paper	50.00
Swill Licenses	300.00
State of Massachusetts	20.29
Rendering License	1.00
	\$3,727.41
Total to General Fund, 1905	\$ 3,727.41
Total to General Fund, 1904	4,137.31
Total to General Fund, 1903	4,085.12
Total to General Fund, 1902	6,103.87
Total to General Fund, 1901	4,585.26
Total to General Fund, 1900	3,647.03
Total to General Fund, 1899	3,796.05

SUMMARY.

OFFICE.

	Expendi- tures.	Appropri- ations.	Receipts.	Balance.	Deficit.
Salaries of Board	\$1,500.00.				
Salary of Dr. Smith ...	600.00				
Pay Rolls, Office.....	7,184.75				
	\$9,284.75	\$9,135.00			\$149.75
Bills	2,206.21	2,321.00	\$10.01	\$124.80	

YARD.

Pay Rolls.....	29,968.36	28,637.00	817.75		513.61
Bills	6,950.99	6,098.00			852.99

SMALL POX.

Total Cost	3,297.08	3,297.08	.49	.49	
	\$51,707.39	\$49,488.08	\$828.25	\$125.29	\$1,516.35

COST OF HEALTH DEPARTMENT FOR 1905.

EXPENDITURES.

Salaries of Board	\$ 1,500.00
Salary of Bacteriologist	600.00
Pay Rolls, Office	7,184.75
Pay Rolls, Yard	29,968.36
Bills, Small Pox	3,297.08
Bills, Office	2,206.21
Bills, Yard	6,950.99
	\$51,707.39

APPROPRIATIONS.

Office Salaries	\$ 9,135.00
Office Sundries	2,321.00
Yard Labor	28,637.00
Yard Sundries	6,098.00
Small Pox	3,297.08
	\$49,488.08
Receipts	828.25
Deficit	1,516.35
	\$51,832.68
Credit	125.29
	\$51,707.39

FOLLOWING IS A SCHEDULE OF THE PROP-
ERTY IN CONTROL OF THE BOARD
OF HEALTH.

1. Bay Horse, "Sam," 17 years	\$ 30.00
2. Brown Horse, "Billy," 15 years	100.00
3. Bay Horse, "Peter," 16 years	15.00
4. Bay Mare, "Bridget," 13 years	15.00
5. Bay Horse, "Jack," 13 years	90.00
6. Bay Mare, "Sue," 15 years	20.00
7. Black Horse, "Major," 13 years	80.00
8. Bay Horse, "Baldy," 17 years	100.00
9. Bay Horse, "Fred," 18 years	90.00
10. Brown Mare, "Kate," 15 years	30.00
11. Brown Mare, "Maggie," 18 years	10.00
12. Bay Horse, "Duke," 19 years	40.00

13.	Gray Mare, "Grace," 13 years	110.00
14.	Black Horse, "Nigger," 14 years	40.00
15.	Bay Horse, "Joe," 14 years	110.00
16.	Gray Mare, "Mollie," 16 years	90.00
17.	Bay Mare, "Helen," 10 years	150.00
18.	Bay Horse, "Ned," 12 years	100.00
19.	Bay Horse, "Moxie," 11 years	100.00
20.	Black Horse, "Tom," 9 years	100.00
21.	Black Horse, "John," 10 years	100.00
22.	Sorrel Horse "Doctor," 14 years	50.00
23.	Bay Horse, "George," 10 years	100.00
24.	Bay Mare, "Sarah," 10 years	115.00
25.	Bay Mare, "Mollie," 8 years	150.00
26.	Bay Horse, "Tom," 11 years	65.00
27.	Brown Horse, "Jim," 11 years	90.00
28.	Bay Mare, "Grace," 8 years	175.00
29.	Gray Mare, "Daisy," 6 years	250.00
30.	Gray Mare, "Flora," 6 years	250.00
31.	Black Horse, "Joe," 6 years	275.00
32.	Black Horse, "George," 6 years	275.00
		\$3,315.00

WAGONS AND SLEDS.

1	Ambulance	\$ 175.00
1	Hospital Wagon	10.00
10	Double Ash Carts at \$100	1,000.00
4	Single Ash Carts at \$40	160.00
10	Double Ash Sleds at \$70	700.00
4	Single Ash Sleds at \$50	200.00
10	Single Swill Sleds at \$50	500.00
1	Double Swill Wagon	40.00
12	Single Swill Wagons	700.00

2 Coupes	425.00
2 Paper Wagons at \$100	200.00
2 Sleighs	80.00
2 Pungs at \$35	70.00
1 Concord Wagon	20.00
2 Moyer Buggies	175.00
2 Goddard Buggies	250.00
1 Covered Sleigh	20.00
2 New Paper Sleds at \$75	150.00
	\$4,875.00

HARNESSES AND ROBES.

1 Set Double Harnesses for ambulance	\$ 25.00
2 Sets Single Harnesses for ambulance ...	25.00
10 Single Harnesses at \$20	200.00
10 Double Harnesses at \$20	200.00
35 Halters	8.00
4 Horse Covers	14.00
3 Woolen Robes	15.00
35 Baker Stable Blankets	100.00
3 Street Blankets	12.00
1 Rubber Lap Robe	2.00
15 Surcingles	2.50
20 Curry Combs and Brushes	10.00
10 Canvas Covers for Ash carts	30.00
12 Mane Brushes	2.00
3 Under Harness Street Blankets	15.00
2 Large Canvases	8.00
2 Sponges	1.50
13 Collars	50.00
9 Collar Pads	4.50
3 Buffalo Robes	25.00

9 Harness Pads	1.00
8 Zinc Pads	1.00
1 Sheepskin	2.00
4 Sets Reins	5.00
5 Trace Girths	2.00
6 Shaft Lugs	2.00
4 Sets Hold-back Straps	2.00
4 Saddle Girths	2.00
4 Summer Blankets	3.00
33 Stall Straps	7.00
17 String Bells	12.00
4 Light Harnesses	60.00
32 Square Shovels	16.00
	\$ 864.50

SUMMARY.

Horses	\$ 3,315.00
Wagons and Sleds	4,875.00
Harnesses and Robes	864.50
Miscellaneous	200.00
Carpenter Shop	300.00
Blacksmith Shop	350.00
Small Pox Hospital	500.00
	\$10,404.50

At the Yard of the Department there are employed:

1 Foreman	\$3.50 per day
1 Blacksmith	2.75 per day
1 Carpenter	2.50 per day
1 Fumigator	2.50 per day
3 Hostlers and Watchmen	2.00 per day

10 Ash Teamsters	2.00 per day
10 Ash Helpers	1.80 per day
7 Swill Teamsters	2.00 per day
7 Swill Helpers	1.80 per day
2 Paper Teamsters	2.00 per day
2 Paper Helpers	1.80 per day
3 Dump Men	1.80 per day

Year.	Population	Expenditures	Revenue	Net Cost	City's Valuation	Taxation Per Capita
1900	94,969	1 46,266 11	3,647 03	42,619 08	71,529,515	.44
1901	94,969	2 46,645 36	4,585 26	41,960 10	71,647,588	.44
1902	99,574	3 52,449 73	6,103 87	46,345 86	71,903,757	.46
1903	101,969	4 46,069 16	4,085 12	41,984 04	72,004,028	.41
1904	104,402	5 46,112 62	4,137 31	41,975 21	71,614,907	.40
1905	94,889	6 50,879 14	3,726 41	47,151 73	71,645,718	.45

1. Smallpox, \$4,739.67
2. Smallpox, 982.33
3. Smallpox, 6,617.20
4. Smallpox, 1,000.00
5. Smallpox, 1,010.02
6. Smallpox, 3,296.59

The Department have in use Jan. 1, 1905, as dumping grounds for the ash collection:—

Land owned by the Locks and Canals, First St.

Land owned by the Locks and Canals, Aiken St.

Land owned by E. B. Peirce, Tanner St.

Land owned by Boyle Bros., Middlesex St., corner Pawtucket.

Land owned by E. A. Smith, Knapp Ave.

Land owned by Agricultural Society, Gorham St.

Land owned by Viola Wilson, Leverett St.

Land owned by Locks and Canals, Stackpole St.

Land owned by J. W. Bennett Estate, Tanner St.

Land owned by J. P. Mahoney, State St.

Land owned by D. Gage Estate, Mammoth Road.

Land owned by C. I. Hood, Andover St.

Land owned by J. F. Holden, Westford St.

Land owned by D. Gage Estate, Broadway, corner Pawtucket St.

Land owned by Textile School in rear.

This report is respectfully submitted to the Honorable Mayor and City Council.

LEONARD HUNTRESS,

WILLIAM B. JACKSON,

WILLIAM C. DOHERTY,

Board of Health.

TABLE SHOWING RAINFALL IN INCHES BY MONTHS FOR TWENTY-SEVEN YEARS 1879-1905.

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1879.	2 475	3 762	5 013	4 030	2 279	5 709	4 379	6 176	2 176	1 434	3 364	4 465	45 262
1880.	4 359	3 944	3 005	2 375	2 676	1 702	6 518	3 156	1 529	2 823	1 841	5 581	36 519
1881.	5 538	3 151	7 210	1 855	4 274	4 900	2 496	1 731	2 730	1 962	4 282	4 253	44 182
1882.	4 521	5 773	3 019	1 674	4 904	2 789	1 677	0 984	7 313	2 312	1 011	2 027	38 010
1883.	2 923	3 405	1 885	1 895	4 640	2 036	3 583	0 909	1 487	5 292	1 730	2 623	32 418
1884.	4 914	5 793	5 013	4 110	3 684	3 064	3 198	3 977	0 924	1 945	2 328	5 149	44 039
1885.	4 856	4 095	1 022	3 606	3 589	4 293	6 026	6 098	1 581	4 841	5 183	2 811	48 001
1886.	6 765	6 535	3 338	1 966	3 587	1 859	3 512	3 128	3 963	2 781	4 901	4 444	46 829
1887.	5 720	5 182	4 738	3 046	1 644	2 608	5 423	10 931	2 228	3 116	3 270	5 379	53 445
1888.	4 601	4 303	6 519	3 782	3 890	2 809	3 057	4 857	7 966	6 780	5 983	5 366	39 915
1889.	5 037	1 710	1 938	3 830	3 889	2 592	6 102	3 979	3 266	4 268	6 929	3 366	46 756
1890.	2 766	3 767	6 833	1 987	5 660	3 530	3 447	4 856	4 457	7 705	1 584	4 466	51 067
1891.	7 041	3 840	5 953	3 563	2 289	3 659	2 968	1 966	1 806	2 926	1 913	3 204	41 131
1892.	5 389	2 742	2 643	0 628	5 861	4 444	2 321	4 304	1 973	1 378	5 829	1 106	38 618
1893.	2 392	7 703	2 439	2 946	4 900	2 414	2 696	3 944	2 293	3 825	1 933	5 460	42 945
1894.	3 349	3 502	1 268	3 757	4 359	0 372	2 998	0 925	3 027	3 641	3 519	3 838	34 375
1895.	3 306	1 147	2 656	4 569	1 782	2 631	2 659	2 017	2 230	6 674	8 165	3 172	41 332
1896.	2 243	4 647	6 510	1 335	2 316	2 683	3 786	2 759	9 066	2 995	3 023	1 126	42 201
1897.	4 551	2 958	4 146	2 248	4 945	6 106	4 619	5 630	3 033	0 592	6 487	5 320	50 439
1898.	8 124	3 457	1 652	5 201	3 053	3 649	2 930	8 226	1 970	7 846	6 447	2 744	54 289
1899.	3 690	5 017	7 950	1 500	2 100	2 713	4 116	2 111	3 663	1 987	2 714	1 683	39 244
1900.	5 451	10 119	6 566	2 156	3 785	2 710	2 648	3 730	4 368	3 326	6 181	3 068	54 068
1901.	1 720	1 056	5 756	10 567	7 678	1 489	4 776	3 267	3 282	3 434	2 792	8 553	54 370
1902.	2 968	6 265	5 281	5 475	2 366	2 107	3 563	5 159	6 290	5 288	0 856	6 204	51 110
1903.	3 386	3 957	5 900	3 691	0 818	9 180	2 621	3 676	1 745	4 461	1 527	3 011	43 973
1904.	4 838	2 438	2 648	9 316	2 983	3 995	1 827	3 207	5 512	1 282	1 506	2 330	41 882
1905.	6 958	1 705	3 708	2 171	1 293	5 179	0 591	4 498	6 389	1 327	2 251	3 862	39 932

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ANNUAL REPORT

OF THE

Superintendent of Streets

OF THE

CITY OF LOWELL

For the year 1905



LOWELL, MASS:
THE LAWLER PRINTING CO.
1906



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REPORT.

Superintendent of Streets Office, City Hall,
LOWELL, MASS., March 24, 1906.

To the Honorable City Council:

GENTLEMEN:—

In compliance with the City Ordinances, herewith, respectfully is submitted the annual report upon the several departments under the direction and control of the Superintendent of Streets, for the year 1905.

Respectfully submitted,

CHARLES J. MORSE,

Superintendent of Streets.



STREET DEPARTMENT ORGANIZATION 1905

*Assistant Superintendent
Streets*

GEORGE W. HARTWELL

*Assistant Superintendent
Sewers*

FRANK W. LAZELLE

SUPERINTENDENT OF STREETS
CHARLES J. MORSE

Bookkeeper

FRANKLIN T. WILSON

Sewer Inspector

SAMUEL D. BUTTERWORTH

Department Clerk

CLARENCE H. RAYMOND

Street Committee

Alderman Fairweather, Chairman

Alderman Hayes

Councilman Mayberry

Councilman Clough

Councilman Mahoney

Councilman Morse

Councilman Fleming

Sewer Committee

Alderman Grant, Chairman

Alderman Cosgrove

Alderman Walker

ENGINEERING DEPARTMENT

*Assistant Engineer
Streets*

WILLIAM A. FAVOR

*Assistant Engineer
Sewers*

FREDERICK W. FARNHAM

CITY ENGINEER
GEORGE BOWERS

FINANCIAL STATEMENT.

NAME OF APPROPRIATION	Annual Appropriation	Additional Appropriation	Receipts	Total Receipts	Expended	Trans. to Gen. Treas. Fund
STREET DEPARTMENT						
Salaries.....	\$ 4,000 00	.....	.....	\$ 4,000 00	\$ 4,000 00	.....
Yard labor.....	11,000 00	.....	\$ 307 25	11,307 25	10,829 84	\$ 477 41
Care of Streets and Boulevard.	100,000 00	\$27,500 00	80 67	127,580 67	121,657 58	5,923 09
New Sidewalks.....	7,500 00	.....	.....	7,500 00	4,475 60	3,024 40
Sidewalk Repairs.....	4,000 00	.....	.....	4,000 00	3,999 39	61
Sundries.....	47,000 00	.....	1,962 13	48,962 13	47,605 95	1,356 18
Repairs of Central Bridge.....	.....	11,000 00	.....	11,000 00	10,999 58	42
Macadamizing Stackpole Street	.....	3,500 00	.....	3,500 00	3,497 59	2 41
Macadamizing Durant Street..	.....	5,500 00	.....	5,500 00	5,499 95	05
Macadamizing Willow Street ..	.....	1,500 00	.....	1,500 00	1,500 00	.....
	173,500 00	49,000 00	2,350 05	224,850 05	214,065 48	10,784 57
SEWER MAINTENANCE						
Salaries.....	2,939 00	.....	.....	2,939 00	2,939 00	.....
Labor.....	12,000 00	.....	504 00	12,504 00	12,346 62	157 38
Sundries.....	8,000 00	.....	3,059 30	11,059 30	10,880 78	178 52
	22,939 00	.....	3,563 30	26,502 30	26,166 40	335 90
WATERING STREETS						
Labor.....	5,000 00	.....	.....	5,000 00	4,999 11	89
Sundries.....	10,500 00	.....	1,384 00	11,884 00	11,091 63	792 37
	15,500 00	.....	1,384 00	16,884 00	16,090 74	793 26
SEWER CONSTRUCTION						
	100,000 00	.....	10 00	100,010 00	99,466 37	543 63

CLEANING STREETS.

STREETS.	LABOR. .	TEAMING.	TOTAL COST.
A	\$ 44 06	\$ 2 87	\$ 46 93
Abbott	9 05	64	9 69
Adams	7 81	1 00	8 81
Agawam	31 63	2 38	34 01
Aiken	8 75	63	9 38
Aiken Avenue	41 59	3 94	45 53
Alder	11 81	1 08	12 89
Albion	6 28	37	6 65
Ames	9 31	61	9 92
Andover	163 06	12 45	175 51
Andrews	45 01	2 87	47 88
Anne	51 53	3 43	54 96
Appleton	39 92	5 62	45 54
Ardell	3 19	18	3 37
Arch	14 36	93	15 29
Arlington	26 55	2 05	28 60
Arthur	4 56	25	4 81
Ash	10 17	68	10 85
Austin	19 02	1 76	20 78

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Auburn.....	9 13	75	\$ 9 88
Astor.....	2 06	12	2 18
Avon	2 06	25	2 31
B	69 25	4 26	73 51
Bartlett	24 25	2 20	26 45
Barclay.....	15 99	1 07	17 06
Barker	11 25	74	11 99
Bassett.....	8 33	65	8 98
Barrington	4 79	25	5 04
Belmont Avenue....	16 75	1 14	17 89
Beech	43 81	2 85	46 66
Beacon	138 64	11 85	150 49
Bellevue	11 73	87	12 60
Belmont	37 42	2 43	39 85
Bertram.....	6 27	37	6 64
Belrose Avenue	10 53	69	11 22
Billings.....	46 73	3 13	49 86
Blodgett.....	12 03	69	12 72
Blossom	36 97	2 63	39 60

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Boynton	16 86	94	\$ 17 80
Boulevard	963 21		963 21
Boyleston	69 32	4 25	73 57
Bowden	2 29	19	2 48
Bowers	30 93	2 38	33 31
Bourne	4 86	37	5 23
Brown	5 26	62	5 88
Branch	42 09	3 18	45 27
Brookside Avenue..	2 04	12	2 16
Broadway	60 81	4 36	65 17
Brooks	8 02	62	8 64
Bridge	93 58	9 13	102 71
Burt	15 91	1 05	16 96
Burlington Avenue.	7 63	49	8 12
Burns	3 50	50	4 00
Burgess	14 19	91	15 10
Butterfield	24 41	1 55	25 96
Butler Avenue.	6 66	63	7 29
Burnside	4 59	37	4 96

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
By	16 34	1 12	\$17 46
Carlisle	2 30	18	2 48
Campaw	8 45	57	9 02
Cambridge	28 64	1 89	30 53
Cady	11 49	82	12 31
Canton	35 77	2 62	38 39
Carlton	6 03	37	6 40
Carter	3 57	24	3 81
Cabot	21 54	1 63	23 17
Cedar	7 55	50	8 05
Central	12 94	2 01	14 95
Centre	5 24	41	5 65
Cheever	24 30	2 53	26 83
Chase Avenue	2 61	19	2 80
Chambers	10 05	80	10 85
Chester	12 50	82	13 32
Chapel	45 19	5 63	50 82
Chestnut	35 39	3 75	39 14
Chase	1 72	12	1 84

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Church	57 58	6 50	\$ 64 08
Chelmsford	131 17	14 31	145 48
Clithero	49 68	3 13	52 81
Clark	17 61	1 69	19 30
Claire	23 52	1 37	24 62
Colonial Avenue...	29 89	1 93	31 82
Coral	28 16	2 17	30 33
Court (Chapel Hill)	5 88	43	6 31
Columbus Avenue..	32 07	2 31	34 38
Corner	6 19	38	6 57
Coolidge... ..	9 69	75	10 44
Coburn	74 87	4 99	79 86
Corbett	4 60	37	4 97
Cosgrove	4 59	38	4 97
Common	55 98	5 87	61 85
Concord	63 09	4 62	67 71
Colburn	4 75	93	5 68
Congress	13 38	1 38	14 76
Crowley	11 25	87	12 12

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Crosby	77 50	14 43	\$91 93
Cross	90 90	7 61	98 51
Crescent	6 61	37	6 98
Crawford	11 65	75	12 40
Cumberland Road..	14 29	87	15 16
Cushing	7 79	56	8 35
D	27 31	1 87	29 18
Davis	1 26	09	1 35
Dane	3 28	50	3 78
Daly	5 85	36	6 21
Dartmouth	3 89	25	4 14
Dalton	16 39	1 05	17 44
Davidson	3 13	38	3 51
Dover	52 99	4 00	56 99
Doane	2 05	12	2 17
Dodge	4 52	31	4 83
Dunfey	10 72	69	11 41
Durant	23 78	2 81	26 59
Dummer	30 07	2 52	32 59

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
East Merrimack...	78 88	7 18	\$86 06
East Pine.....	19 07	1 26	20 33
Edson.....	10 57	67	11 24
Eighth	16 16	1 00	17 16
Eighth Avenue.....	7 06	43	7 49
Eighteenth	31 47	1 87	33 34
Elliot.....	12 09	84	12 93
Eleventh	78 84	4 75	83 59
Ellsworth	2 31	19	2 50
Elm	56 63	4 01	60 64
Emery	17 39	99	18 38
Ennell.....	17 19	1 18	18 37
Essex	26 26	1 63	27 89
Exeter	18 02	1 26	19 28
Everett.....	14 72	1 01	15 73
Fairview	37 97	2 57	40 54
Fairmount.....	77 08	5 21	82 59
Fay	25 04	3 07	28 11
Farmland Road	11 82	80	12 62

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Favor	6 89	42	\$ 7 31
Fayette	12 85	1 22	14 07
Fernald	6 18	44	6 62
Fenwick.....	9 75	1 31	11 06
Fifth	33 42	2 25	35 67
First	34 97	2 19	37 16
First Avenue.....	32 49	3 19	35 68
Fletcher.....	108 15	9 57	117 72
Florence Avenue...	1 93	12	2 05
Floyd	12 88	1 01	13 89
Fourth	39 09	2 50	41 59
Fourth Avenue	48 55	3 31	51 86
Foster	86 47	5 32	91 79
Ford ..	20 24	2 22	22 46
Fort Hill Avenue..	43 24	3 23	46 47
Forrest	28 86	1 63	30 49
French	1 13	06	1 19
Franklin	27 40	2 13	29 53
Fremont	47 37	3 43	50 80

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Front	8 68	50	\$ 9 18
Fulton	32 03	2 13	34 16
Garnet	10 81	75	11 56
Gates	26 57	2 00	28 57
Georgia Avenue ...	4 79	25	5 04
George	9 78	87	10 65
Gershom Avenue ..	26 64	1 62	28 26
Gibson	18 34	1 12	19 46
Glidden Avenue....	7 65	50	8 15
Gorham	85 33	15 12	100 45
Gold	10 05	61	10 66
Griffin.....	1 73	13	1 86
Grace	12 79	87	13 66
Grove	53 51	3 96	57 47
Grand	56 94	3 62	60 56
Hale	64 73	4 19	68 92
Hazeltine	2 61	13	2 74
Harding	4 31	18	4 49
Hawthorn	8 00	50	8 50

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Hanover.....	13 49	1 38	\$ 14 87
Harrison	19 39	1 56	20 95
Hall.....	26 56	2 09	28 65
Hastings	41 84	2 75	44 59
Hanks.....	37 78	1 34	39 12
Harvard.....	18 52	1 12	19 64
Hampshire	28 74	1 75	30 49
Hancock Avenue...	7 69	56	8 25
Highland	33 60	2 51	36 11
Highland Avenue..	29 19	1 75	30 94
High	90 17	6 34	96 51
Hildreth.....	89 09	5 38	94 47
Howe	13 36	1 32	14 68
Hovey.....	7 91	55	8 46
Hovey Avenue.....	4 67	32	4 99
Howard	70 97	5 65	76 62
Holyrood Avenue..	110 77	6 25	117 02
Hoyt Avenue	15 08	1 03	16 11
Hutchinson Avenue	1 93	13	2 06

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Hudson	9 24	73	\$ 9 97
Huntington	29 56	2 22	31 78
Hurd	8 69	94	9 63
Hutchinson	2 35	12	2 47
Humphrey	45 79	2 75	48 54
Ina	5 24	38	5 62
Inland	18 38	1 01	19 39
Jackson	1 05	12	1 17
James	19 68	1 18	20 86
Jefferson	23 53	1 96	25 49
Jenness	30 52	1 56	32 08
Jewett	33 54	1 87	35 41
John	60 85	8 15	69 00
John Street Avenue	7 14	43	7 57
June	13 13	75	13 88
Keene	12 32	1 02	13 34
Kitson	1 95	13	2 08
Kirk	12 34	75	13 09
Kinsman	26 59	2 07	28 66

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Kimball Avenue....	5 67	32	5 99
Knapp Avenue.....	22 62	1 00	23 62
Lawrence	59 53	5 23	64 76
Lane	23 39	1 57	24 96
Lawson	15 62	1 06	16 68
Laurel	21 27	1 48	22 75
Lagrange.....	20 86	1 50	22 36
Lakeview Avenue..	4 37	37	4 74
Lee	65 14	4 32	69 46
Leroy	9 34	62	9 96
Lewis	29 97	2 26	32 23
Leverett.....	13 85	87	14 72
Lenox.....	3 59	25	3 84
Liberty	80 86	5 08	85 94
Little	10 06	1 94	12 00
Livermore.....	11 66	1 08	12 74
Livingston Avenue.	29 35	1 81	31 16
Linden	23 34	1 63	24 97
Lilley Avenue	37 88	2 13	40 01

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Lipton	8 65	50	9 15
Livingston	12 72	88	13 60
Lincoln.....	56 20	3 75	59 95
London.....	19 39	1 06	20 45
Loring	34 88	2 68	37 56
Lombard	12 34	75	13 09
Locke	2 62	18	2 80
Ludlam	56 56	3 87	60 43
Lundberg	30 39	2 81	33 20
Lyons.....	9 16	69	9 85
Marsh.....	1 82	12	1 94
Mannahan	15 34	1 12	16 46
Mansur	21 51	1 50	23 01
May.....	8 55	50	9 05
Marion	8 03	56	8 59
Main	36 82	4 75	41 57
Manchester.....	3 68	25	3 93
Mammoth Road....	31 62	2 50	34 12
Marginal	19 04	1 25	20 29

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Marshall	41 10	2 76	43 86
Madison.....	12 44	1 56	14 00
Marlboro	30 80	2 14	32 94
Maple	12 27	87	13 14
Market.....	46 43	6 37	52 80
McKinley Avenue..	7 41	50	7 91
Methuen	66 52	5 07	71 59
Merrimack	22 32	3 50	25 82
Meadow Road.....	18 77	1 07	19 84
Meadowcroft	17 89	1 26	19 15
Mead.....	5 78	50	6 28
Middlesex	304 53	31 92	336 45
Midland	31 78	2 01	33 79
Mill	9 27	68	9 95
Moody	262 63	19 73	282 36
Moore.....	59 91	4 39	64 30
Mt. Grove	31 94	2 18	34 12
Mt. Vernon.....	52 66	4 00	56 66
Mt. Washington...	37 90	4 09	41 99

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Mt. Hope.....	36 00	2 26	38 26
Myrtle	31 11	1 88	32 99
New Moody	29 31	1 94	31 25
Newell	5 61	37	5 98
Nesmith.....	96 45	9 37	105 82
Newhall	14 37	1 06	15 43
Ninth	4 13	25	4 38
Nichols.....	31 52	1 86	33 38
Nicollett.....	4 32	25	4 57
Nineteenth	21 80	1 25	23 05
North Common	19 69	3 50	23 19
North	9 68	68	10 36
Norcross	37 94	2 14	40 08
Oakland	12 79	74	13 53
Oak	15 68	1 18	16 86
Oliver	8 21	51	8 72
Osgood.....	14 39	1 01	15 40
Otis.....	13 39	99	14 38
Ottawa	9 34	62	9 96

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Orchard.....	4 09	29	4 38
Park	14 31	1 48	15 79
Payton	2 92	19	3 11
Parkview Avenue..	69 93	4 31	74 24
Parker	90 58	5 63	96 21
Paige	77 66	4 96	82 62
Pawtucket.....	115 46	9 83	125 29
Perkins	6 56	50	7 06
Perry	41 62	3 35	44 97
Pearl.....	21 66	1 31	22 97
Phillips	5 49	37	5 86
Pine	87 73	5 68	93 41
Plain.....	9 89	69	10 58
Pleasant.....	2 16	38	2 54
Plymouth	1 94	12	2 06
Powell	38 80	2 46	41 26
Pollard.....	5 59	50	6 09
Pond	7 88	43	8 31
Post Office Avenue.	3 25	37	3 62

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Porter	30 41	1 94	32 35
Princeton	46 67	2 99	49 66
Prescott.....	1 52	25	1 77
Prospect	1 52	13	1 65
Puffer..	17 30	1 06	18 36
Quebec.....	1 84	13	1 97
Queen.....	37 44	2 56	40 00
Ralph	1 60	12	1 72
Railroad.....	7 99	50	8 49
Race	20 00	1 61	21 70
Reservoir.....	2 59	13	2 72
Read	31 25	2 00	33 25
Riverside.....	86 86	5 86	92 72
Richardson	4 12	26	4 38
Richmond	4 52	30	4 38
Richards	28 63	1 80	30 43
Rolfe.....	21 92	1 63	23 55
Rock	117 30	10 64	127 94
Rogers	120 46	9 73	130 19

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Robbins	24 14	1 62	25 76
Royal	24 48	1 88	26 36
Robinson	2 29	19	2 48
Robert	6 16	43	6 59
Saratoga.....	4 60	37	4 97
Sarah Avenue.....	4 55	31	4 86
Sargent	10 93	63	11 56
Sayles.....	11 71	6 36	18 07
Sanders Avenue....	52 09	3 38	55 47
Sanborn	1 60	09	1 69
Schaffer	10 69	69	11 38
School.....	183 44	12 36	195 80
Second	25 80	1 77	27 57
Seventh	21 27	1 26	22 53
Second Avenue....	12 43	87	13 30
Seventh Avenue. ..	17 89	1 06	18 95
Sheldon	9 40	75	10 15
Sherman	49 76	3 22	52 98
Shaw.....	42 64	2 92	45 56

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Shattuck	2 79	62	3 41
Sixth Avenue	12 16	76	12 92
Sidney	9 89	75	10 64
Sixth.....	64 41	4 02	68 43
Simpson.....	6 73	47	7 20
Smith	79 52	5 58	85 10
Smith Avenue.....	10 19	75	10 94
South Loring	25 14	1 68	26 82
South Walker.....	28 50	1 81	30 31
South Canton.....	15 17	1 05	16 22
South Whipple.....	26 13	1 87	28 00
South	81 36	5 30	86 66
South Highland....	13 83	1 65	15 48
Somerset	9 84	67	10 51
Spaulding	13 70	1 21	14 91
Stanley.....	16 55	1 13	17 68
State	12 28	94	13 22
Starbird.....	6 14	38	6 52
Stackpole.....	39 12	3 69	42 81

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Stevens.....	199 47	13 73	213 20
Summer.....	58 71	3 86	62 57
Suffolk	20 01	1 52	21 53
Swift.....	9 44	82	10 26
Talbot	17 68	1 18	18 86
Tanner.....	7 81	50	8 31
Tenth.....	42 21	2 63	44 84
Thirteenth	39 06	2 13	41 19
Thorndike.....	223 60	23 01	246 61
Third Avenue . . .	15 39	1 01	16 40
Third	85 98	5 31	91 29
Tilden	24 40	2 69	27 09
Tucker.....	26 30	2 20	28 50
Tremont	23 50	2 37	25 87
Tyler	18 61	1 26	19 87
Tyler Park	79 31	5 00	84 31
Twelfth.....	31 80	1 94	33 74
Union	25 35	1 74	27 09
Upham	6 47	37	6 84

CLEANING STREETS.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Varney.....	21 59	1 63	23 22
Varnum.....	22 56	1 30	23 86
Varnum Avenue...	110 35	6 82	117 17
Vernon.	6 51	44	6 95
Victoria	19 99	1 37	21 36
Wachusett.....	8 55	50	9 05
Warren	3 47	37	3 84
Waverly Avenue...	7 93	56	8 49
Ward	20 51	1 78	22 29
Wamesit	12 65	95	13 60
Walker.....	86 88	6 76	93 64
Wannalancit	26 81	1 95	28 76
Washington	20 61	1 37	21 98
Walnut.....	16 89	1 39	18 28
Waite	1 72	12	1 84
Warwick	41 32	2 70	44 02
Ware.....	6 78	51	7 29
Western Avenue...	37 48	6 25	43 73
West (Centralville).	18 81	1 09	19 90

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
West (Ayer's City)	1 84	12	1 96
West Third	39 24	2 45	41 69
West Fourth	31 63	1 93	33 56
West Fifth	13 34	76	14 10
West Sixth	102 17	6 23	108 40
West Ninth	6 78	38	7 16
West Eleventh	7 53	42	7 95
West Bowers	6 39	37	6 76
West Adams	18 19	1 25	19 44
Wentworth Avenue	96 69	6 44	103 13
Westford	112 91	7 33	120 24
Whitney Avenue ...	29 96	1 69	31 65
Whiting	6 57	1 00	7 57
Whipple	22 91	1 88	24 79
White	31 78	2 25	34 03
Willow	21 10	1 90	23 00
Wilder	152 71	10 18	162 89
Winthrop Avenue..	8 49	38	8 87
Willie	71 60	7 19	78 79

CLEANING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Willie Avenue.....	5 37	37	5 74
Williams	41 64	7 75	49 39
Winter	8 65	56	9 21
Williard	13 25	75	14 00
Windsor.....	12 09	1 05	13 14
Worthen.....	76 89	7 12	84 01
Woodward Avenue.	10 44	75	11 19
Wyman	34 56	2 50	37 06
	\$13,346 63	\$967 60	\$14,314 23

PERSONAL PROPERTY.

Schedule of personal property belonging to the
Street Department, December 31, 1905.

1 machine auger	\$ 50	1 double stone wagon. \$	25 00
3 adzes.....	3 00	2 lumber wagons.....	250 00
61 barn blankets.....	122 00	1 single lumber wagon	10 00
82 street blankets	164 00	16 single dump carts.	1,600 00
1 bridge auger.....	50	5 2-wheel dump carts	250 00
69 curry combs.....	17 25	1 single jigger.....	75 00
52 horse brushes.....	75 00	2 fire pails.....	5 00
3 clocks	2 00	51 feed baskets.....	40 00
4 coal hods.....	2 00	250 feet fire hose.....	60 00
39 old horse collars...	40 00	107 grade stakes	1 00
6 hand rollers.....	30 00	53 tons hay.....	1,060 00
4 sets dump cart harnesses.....	70 00	43 draught horses	8,600 00
123 lanterns.....	123 00	7 driving horses.....	900 00
12 single sleds	375 00	200 loads sand	200 00
27 double sleds.....	1,600 00	2515 bushels oats.....	1,031 15
3 derricks.....	125 00	35 mane brushes	10 00
26 drilling spoons ...	5 00	1 set dies and plates..	75 00
36 sets double harness	800 00	3 stone drags	10 00
4 driving sleighs.....	150 00	36 street signs.....	36 00
7 carriages	900 00	3 horse covers	7 00
10 driving harnesses..	200 00	55 halters	55 00
25 double carts.....	2,400 00	2 hay cutters.....	10 00
2 double jiggers.....	150 00	412 snow shovels	206 00

PERSONAL PROPERTY —CONTINUED.

10 stone forks.....	\$ 4 00	1500 lbs. shorts	\$ 15 00
12 sets sighting sticks	5 50	10 bags salt.....	10 00
5 iron squares.....	4 00	131 hammer handles..	12 00
10 hay forks.....	5 00	150 tons crushed stone	195 00
1 hand cart	10 00	45 hand pans	30 00
13 machine brooms...	118 30	24 push pans.....	58 00
16 snow plows.....	160 00	7 screens... ..	20 00
11 tape measures.....	11 00	1 pung.....	10 00
3 sparrow wagons....	75 00	8 cans Albany grease	16 00
7 sparrow carts.....	20 00	2 sod cutters	1 00
4-2 horse sweepers ...	500 00	2 boxes Green Mount-	
900 lbs. rock salt....	17 00	ain salve.....	12 00
200 lbs. horse food....	3 00	4 wheel jacks.....	15 00
80 bushels corn.....	48 60	13 cart spreaders.....	6 00
1 stone crusher (Flet-		2 pair cart shafts....	16 00
cher street).....	2,400 00	4 gals. turpentine....	5 00
15 pieces corner stone	30 00	2 claw bars	1 00
826 feet maple boards.	60 00	20 gals. kerosene....	5 00
510 feet spruce	10 00	53 lbs. soap	13 00
1735 feet edgestone ...	677 97	52 sponges	14 50
190 feet flagging	95 00	1 oil tank	45 00
1 road cutter machine	125 00	1 grind stone.....	5 00
2 hard pan road plows	20 00	6 fur robes	100 00
1 single express wagon	50 00	6 ice picks	3 00
12 stone hand sets....	6 00	3 muzzles.....	3 00
4 plush robes.....	4 00	28 ax handles	3 00
2 cant hooks.....	1 00	4 small oil cans	1 00

PERSONAL PROPERTY—CONTINUED.

45 gals cylinder oil...	\$ 14 00	6 peen hammers.....	\$ 9 00
4 monkey wrenches...	4 00	3 hand axes.....	2 52
70 long handled snow shovels.....	35 00	29 garbage barrels...	145 00
6 drill pumps	6 00	190 ft. $\frac{3}{4}$ inch rubber hose.....	17 00
7 forks	3 50	150 ft. $\frac{3}{4}$ inch rope...	1 20
1 chainfall set....	7 00	100 ft. $\frac{1}{2}$ inch rope...	1 00
720 feet 1- $\frac{1}{4}$ inch iron pipe.....	8 00	9 gals. harness oil...	4 50
9 plow points.....	6 75	3 road rollers.....	7,000 00
1 set runners.....	10 00	1 dirt scraper.....	20 00
4 pinch bars	4 00	7 tons coal	49 00
17 drag planks.....	17 00	1 boiler	500 00
5 wheelbarrow trays.	3 75	5308 ft. oak lumber...	318 50
5 gals. harness dres- sing	6 00	190 pick handles	18 00
2 stillson wrenches...	3 50	36 stone chains.....	36 00
3 sets drill hose	30 00	14 striking hammers.	28 00
80 sets shims and wedges.....	3 00	blacksmith shop and tools at ledge	75 00
1 dozen paint brushes.	3 00	3 steam drills.....	500 00
5 gals. axle oil.....	1 00	2000 exploders	60 00
1 blacksmith shop and tools	400 00	40 iron pails.....	25 00
2500 paving blocks ...	137 50	82 square pointed shovels.....	35 00
1 vise	8 00	180 ft. drill steel	85 00
4 new cart bodies	100 00	41 iron rakes.....	30 00
4-2 bushel baskets...	2 00	8 paving mauls.....	8 00
		22 stone hammers....	34 00

PERSONAL PROPERTY—CONTINUED.

12 frost hammers.....	\$ 26 00	85 hoes.....	\$ 42 50
10 stone wedges.....	2 20	14 frost wedges.....	10 00
5 tin dippers.....	50	27 wheelbarrows.....	27 00
56 crow bars.....	56 00	7 long handle shovels.	9 00
19 kegs wire spikes..	48 70	4 batteries and wires	70 00
5 trowels.....	3 00	9 spirit levels.	4 00
310 picks.....	300 00	4 cross cut saws.....	12 00
21 axes.....	11 50	11 tamping bars .. .	11 00
1 keg wire nails.....	2 50	1 portable crusher....	1,300 00
14 tool boxes.....	140 00	1 set falls and rope ..	9 00
8 claw hammers.....	4 00	2 pair pipe tongs.....	3 00
127 hand drills.....	25 00	5 ladders	25 00
123 stone points	14 00	13 single harnesses .	260 00
9 hand saws	4 00	327 round pointed	
60 boxes dynamite ...	690 00	shovels.....	163 50
112 push brooms.....	100 00	7 tackle blocks and	
14 water pails.....	5 00	rope.....	7 00
12-5 gal. water cans..	6 00	6 doz. lantern globes..	6 00
6-2 gal. cans.....	1 50	10 cans polish	12 50
3 derrick chains.....	3 00	1 Carpenter shop and	
8 spreaders and chains	16 00	tools	100 00
2 manure forks.....	1 00	75 sparrow brooms..	30 00
25 gals. paint.....	25 00	5 sets of springs for	
9 brush brooms.....	1 00	steam roller.....	23 50
1 set light double		10 bushings.....	35 00
harness	50 00	4 packages gold dust	75
1 pair rubber boots...	3 25	1 set wire stretchers.	1 50
		Horse medicine	50 00

PERSONAL PROPERTY—CONTINUED.

10 iron bars	\$ 15 00	100 ft. one inch rope.	\$ 3 00
½ bbl. axle grease..	16 00	8 sets steam drill steel	400 00
3 doz. Tuttle's elixer	12 00	2 manure wheelbar-	
14 axes	12 00	rows.....	10 00
3 doz. bells and straps	23 00	12 wooden pails.....	6 00
4 lifting hooks.....	6 00	26 grub axes	40 00
35 lbs. cotton waste..	70	3 steam roller tool	
12 whips.....	16 00	boxes.....	30 00
1 set front wheels...	50 00	18 hand hammers....	10 80
8 paving hammers...	4 00	40 gals. axle oil.....	4 00
6 wooden mauls	6 00	12 bound stones.....	20 00
harness stock.....	75 00	2 new boats	50 00
office fixtures.....	150 00	2 rolls barbed wire..	4 00
12 whiffletrees and		1 steam roller box...	100 00
chains	6 00	250 barn brooms.....	12 00
platform scales.....	300 00		
4 steam roller grates,	20 00		
			\$41,912 62

PERSONAL PROPERTY.

Schedule of personal property belonging to the boulevard December 31, 1905.

1 sprinkling cart	\$ 200 00
23 grass signs	2 50
6 stone forks	3 00
3 iron rakes	1 25
9 hoes	4 50
9 lawn mowers	17 50
8 scythe snaths	4 00
2 sickles	1 00
2 soil cutters	1 25
1 sand screen	2 00
1 spirit level	1 50
1 pair edging shears	1 50
1 grind stone	5 00
1 store house	250 00
2 wheelbarrows	4 00
2 wooden mallets	1 00
2 hand sprinklers	2 00
1 wooden maul	50
2 iron pails	1 00

PERSONAL PROPERTY—CONTINUED.

2 tin dippers.....	\$	20
2 tree trimmers		2 00
6 wooden rakes.....		2 50
4 sparrow brooms		1 00
2 picks		1 20
6 round pointed shovels		6 00
6 square pointed shovels.....		3 60
2 lanterns		1 00
3 sighting sticks.....		50
1 windmill		2,000 00
1 hand saw.....		75
1 hammer		50
2 axes.....		1 50
6 scythes.....		6 00
2 hay forks		1 50
3 ladders		15 00
		\$2, 545 75

PERSONAL PROPERTY.

Schedule of Personal Property belonging to the Street
Watering Department December 31, 1905.

22 horses	\$2,000 00
12 sets double harness.....	325 00
22 halters.....	17 00
25 collars	50 00
13 sprinkling carts	1,800 00
1 monkey wrench.....	75
2 neck yokes	2 00
5 double carts	500 00
24 feed baskets.....	10 00
2 pair tongs.....	4 00
2 step ladders.....	5 00
36 horse brushes	18 00
1 large stillson wrench.....	1 00
10 pails	2 50
1 feed truck.....	4 00
8 shut off wrenches.....	8 00
1 4-quart measure	50
44 blankets.....	140 00
11 sponges	5 50

PERSONAL PROPERTY—CONTINUED.

11 pounds soap.....	\$ 2 75
1 hydrant valve.....	16 00
14 Jenkin's valves.....	56 00
3 wagon jacks.....	15 00
3 street car hydrants.....	195 00
19 street car hydrants.....	2,090 00
	\$7,268 00

PERSONAL PROPERTY.

Schedule of Personal Property belonging to the Sewer
Department December 31, 1905.

40 parts of old grates	\$ 25 00
26 crow bars ..	26 00
10 crabs for shear poles.....	250 00
500 feet drain pipe.....	50 00
10 water barrels.....	10 00
7 mortar beds.....	7 00
3 sand screens	15 00
100 catch basin steps	30 00
18 square feet packing.....	3 00
1 piper's die and stock.....	18 00
6 tool boxes for boilers.....	24 00
2 pair tongs.....	4 00
12 hydrant wrenches	12 00
14 jack bars.....	4 00
1 paving maul	3 00
4 portable forges .	250 00
16 tool boxes	160 00
2 sewer wheelbarrows	2 00
2 dutchmen for hydrants	25 00

PERSONAL PROPERTY—CONTINUED.

9 wooden rolls.....	\$ 2 25
5 engine houses	100 00
6 batteries and wires	120 00
8 steam drills and tools	1,700 00
10 mason's trowels	10 00
700 feet drill steel	140 00
22 caulking tools	10 00
10 hand drill hammers.....	5 00
10 tape lines	12 00
5 pounds shims and wedges.....	3 50
66 striking hammers.....	132 00
19 stone hammers	38 00
4 frost hammers.....	12 00
2 fiddle blocks.....	11 00
179 pick handles.....	17 90
50 pounds oakum.....	2 00
4 kegs 10d nails	9 00
13 sheave blocks.....	1 30
12 catch basin dippers.....	3 00
12 sheathing caps.....	28 00
10 iron mauls.....	10 00

PERSONAL PROPERTY—CONTINUED.

18 wooden mauls.....	\$ 18 00
12 sets shear poles	120 00
1 trainer sewer machine	1,500 00
17 jack screws.....	34 00
6 kegs 30d nails	10 00
198 lanterns	99 00
5 pairs long rubber boots.....	17 50
12 iron pails.....	12 00
400 feet $\frac{3}{4}$ in. rubber hose	25 00
1 set branding irons....	2 00
19 hoes.....	9 50
6 post hole scoops.....	12 00
257 round point shovels.....	128 50
224 square point shovels	112 00
35,000 feet sewer lumber.....	700 00
7 marine pumps	84 00
264 feet pump hose	250 00
1 60 gal. oil can.....	7 50
3 steam drill pumps	3 00
20 drilling spoons.....	10 50
16 hand saws.....	16 00

PERSONAL PROPERTY—CONTINUED.

2 barrels Hoffman cement.....	\$ 2 14
2 barrels Portland cement.....	3 38
3 adzes	11 25
8 axes.....	8 00
5 hatchets	5 00
22 packages carriage bolts	22 00
6 spirit levels....	8 00
1 steel square	1 00
12 measuring sticks... ..	12 00
6 gals. blue paint.....	12 00
9 claw hammers	4 50
21 padlocks.....	21 00
200 feet steam drill packing	24 00
1 box repairs for marine pump	25 00
8 strainers for marine pump.....	7 50
6 monkey wrenches.....	3 75
3 Lidgewood engines.....	2,700 00
1 Hoadley engine	350 00
1 Webb-Watson engine.....	500 00
1 upright boiler.....	250 00
2 derricks	500 00

PERSONAL PROPERTY—CONTINUED.

3 submerged pumps	\$400 00
3 driving horses	300 00
4 draught horses	800 00
1 concord wagon.....	225 00
1 light sleigh	55 00
1 single truck	50 00
4 single sleds.....	200 00
5 single dump carts.....	400 00
1 double truck.....	300 00
7 stable blankets.....	22 00
7 street blankets.....	22 00
4 grub axes	2 50
419 picks	314 25
14 large chains	54 25
5 steam drill tool boxes	20 00
10 tin dippers	1 00
2 spades.....	1 00
100 lbs. waste	9 00
12 spanner wrenches.....	8 50
1 hose nozzle	12 00
1 set taps and dies.....	15 00

PERSONAL PROPERTY—CONTINUED.

21 sling chains	\$ 10 50
7 sets tackle and falls.....	35 00
50 gals. kerosene	5 00
3 neck yokes	6 00
52 wooden pails.....	5 00
4 frost wedges.....	4 00
3 pipe vises.....	45 00
83 hand drills.....	19 92
2 row boats	30 00
2 sheathing dogs.....	6 00
8 iron tampers	4 80
6 scoop handles.....	1 32
7 cross cut saws.....	14 00
24 iron wheelbarrows	72 00
500 feet Canada matched boards	16 00
100 feet spruce matched boards	1 75
2 rolls canvas.....	100 00
4 man-hole covers	39 98
1 length iron pipe	24 00
5 single harnesses	100 00
2 light harnesses	40 00

PERSONAL PROPERTY—CONTINUED.

1 square wagon.....	\$ 125 00
6500 brick.....	58 50
2 tons coal.....	15 00
7 halters.....	7 00
1 work bench.....	5 00
1 stove.....	5 00
1 roll tar paper.....	1 00
1 paving hammer.....	1 50
6 sets wires for batteries.....	12 00
1 set blacksmiths tools.....	5 00
4 anvils.....	15 00
5 oil cloth suits.....	15 00
40 feet 2½ inch hose.....	25 00
6 oil cans.....	5 25
4 paint brushes.....	1 00
4 sets engineer's tools.....	15 00
1 tool house and fixtures.....	2,500 00
1 table.....	8 00
1 2-wheel dump cart.....	30 00
1 bolt cutter.....	8 00
1 sprinkling can.....	75

PERSONAL PROPERTY—CONTINUED.

25 feet plug steel.....	\$ 3 75
1 vise.....	10 00
4 water tubs.....	2 00
2 hand drills.....	16 00
4 pairs short rubber boots.....	6 00
133 lantern globes	10 64
4 edgestone castings.....	8 00
5 long handle shovels	4 00
1 scythe snath.....	1 00
600 feet wrought iron pipe.....	75 00
40 loads sand.....	60 00
3 ejectors.....	35 00
1 pile driver.....	75 00
1 oil tank.....	40 00
75 feet steam drill hose.....	55 50
1 stillson wrench.....	2 50
4 manhole castings.....	54 00
1 magazine.....	375 00
1 box steam drill fixtures.....	300 00
6 boxes packing	18 50
2 dynamite heaters.....	5 00

PERSONAL PROPERTY—CONTINUED.

6 diaphragms for pumps.....	\$ 10 00
8 bags salt.....	8 00
30 boxes exploders.....	157 00
1000 feet 2 ½ in, hydrant hose.....	600 00
5 claw bars.....	5 00
5 plank cutters	5 00
4 water proof covers	12 00
	\$19,529 38

SWEEPING STREETS.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Adams.....	\$ 137 12	\$ 28 81	\$ 165 93
Andover.....	92 60	18 09	110 69
Anne.....	30 03	3 36	35 39
Appleton.	204 18	42 64	246 82
Arch.....	6 77	1 22	7 99
Branch.....	140 76	27 09	167 85
Bridge.....	336 27	68 99	405 26
Cabot.....	76 34	13 39	89 73
Central.....	165 78	36 98	202 76
Church.....	148 09	31 64	179 73
Chelmsford.....	443 62	81 98	525 60
Concord.....	78 50	16 24	94 74
Davidson.....	59 14	12 63	71 77
Dutton.....	177 93	36 49	214 42
East Merrimack....	165 62	34 06	199 68
Fayette.....	96 39	20 57	116 96
First.....	84 15	17 99	102 14
Fletcher.....	119 96	25 88	145 84
George.....	30 30	5 69	35 99

SWEEPING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Gorham.....	\$380 38	\$77 21	\$457 59
Green	41 19	7 76	48 95
Hale.....	109 99	21 07	131 06
Howard.....	91 81	17 28	109 09
Hurd	43 40	8 23	51 63
Jackson.....	175 31	33 44	208 75
Lawrence.....	368 84	73 64	442 48
Lakeview Avenue...	471 59	89 22	560 81
Mammoth Road	125 28	23 45	148 73
Market	340 58	62 27	402 85
Merrimack.....	313 82	68 93	382 75
Middlesex	189 70	42 70	232 40
Moody.....	17 82	3 73	21 55
Mt. Vernon.....	79 32	15 35	94 67
New Moody.....	66 28	12 31	78 59
Pawtucket.....	259 20	51 15	310 35
Pleasant.....	3 52	62	4 14
Prescott.....	19 96	5 18	25 14
Salem.....	104 22	30 43	124 63

SWEEPING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
School.....	\$ 159 80	\$ 29 24	\$ 189 04
Shattuck.....	20 76	4 53	25 29
Thorndike.....	270 08	55 21	325 29
Warren.....	29 57	5 48	35 05
Walker.....	141 01	26 01	167 02
Western Avenue...	177 03	32 32	209 35
Worthen.....	100 57	18 50	119 07
	\$6,694 58	\$1,331 00	\$8,025 58

LOWERING DRIVEWAYS.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Fifth Avenue.....	\$ 1 00		\$ 1 00
Fletcher.....	3 00	\$ 50	3 50
Hanks.....	2 87	50	3 37
Hurd.....	1 50		1 50
London.....	2 25	37	2 62
Moody.....	3 75	62	4 37
Second.....	6 12	1 00	7 12
	\$20 49	\$2 99	\$23 48

REPAIRING CROSSINGS.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Central	\$15 92	\$1 81	\$17 73
Cross	4 50	75	5 25
East Merrimack . . .	5 25	87	6 12
Hildreth	3 62		3 62
Lawrence	2 61	44	3 05
Merrimack	7 01	88	7 89
Pleasant	4 00	50	4 50
Sherman	14 73	1 44	16 17
Thorndike	9 13	1 50	10 63
	\$66 77	\$8 19	\$74 96

PAVING STREETS.

STREETS.	SQ. YDS.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Jackson ..	20	\$ 48 00	\$24 45	\$3 13	\$ 75 58
King	43	96 00	21 12	6 00	123 12
	63	\$144 00	\$45 57	\$9 13	\$198 70

PAVING DRIVEWAYS.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Durant	\$4 94	\$.50	\$ 5 44
Howard	2 44	.25	2 69
Lee	4 94	.50	5 44
Nesmith.....	5 01	.63	5 64
Willow.....	4 75	.50	5 25
	\$22 08	\$2 38	\$24 46

GRADING SIDEWALKS.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Powell....	550	\$ 34 00	\$ 5 00	\$ 39 00
Short.....	396	27 28	4 50	31 78
Stackpole.....	1,067	39 60	4 25	43 85
Woodward Ave...	2,200	93 97	15 50	109 47
	4,213	\$194 85	\$29 25	\$224 10

PAVING GUTTERS.

STREETS.	LENGTH IN FEET.	LABOR.	TEAMING.	TOTAL COST.
Chelmsford	2,180	\$ 253 61	\$ 2 00	\$ 255 61
Daly	400	37 00	4 00	41 00
Dartmouth.....	390	44 94	9 00	53 94
Durant	1,800	300 27	3 73	304 00
Hanks	759	21 31		21 31
John.....	65	4 75	1 00	5 75
Knapp Avenue....	420	78 24	14 75	92 99
Leroy	720	73 35	7 50	80 85
Liberty.....	390	40 37	1 00	41 37
Mammoth Road ..	1,180	180 52	8 00	188 52
Middlesex	160	21 38	2 25	23 63
Mt. Hope	235	35 16	3 38	38 54
New	182	29 20	4 25	33 45
Pine.....	75	8 44		8 44
Powell.....	685	84 63	5 37	90 00
Sayles	786	104 08	16 25	120 33
Sanborn.....	386	64 34		64 34
Walker.....	45	7 22	38	7 60
West Fourth	333	30 85	2 00	32 85
Willow	320	62 62	1 50	64 12
	11,511	\$1,482 28	\$86 36	\$1,568 64

REPAVING GUTTERS.

STREETS.	LENGTH IN FEET.	LABOR.	TEAMING.	TOTAL COST.
Beech.....	748	\$ 44 20	\$4 50	\$ 48 70
Bowers.....	324	4 38	50	4 88
Cross.....	56	5 94	63	6 57
John.....	175	9 88	50	10 38
Walker.....	435	41 56	1 00	42 56
	1,738	\$105 96	\$7 13	\$113 09

REPAVING STREETS.

STREETS.	SQ. YDS.	LABOR.	TEAMING.	TOTAL COST.
Andover	2,045	\$ 708 43	\$ 34 50	\$ 742 93
Bridge.....	200	63 26	6 75	70 01
Central	20	5 94	62	6 56
Church.	3,983	855 13	69 50	924 63
East Merrimack..	933	370 62	18 50	389 12
Fletcher	42	14 99	1 87	16 86
Gorham	193	75 97	5 00	80 97
Mammoth Road...	85	74 86	6 00	80 86
Merrimack	2,169	860 26	36 00	896 26
Middlesex	1,317	464 28	26 75	491 03
Powell.....	5	5 75	56	6 31
	10,992	\$3,499 49	\$206 05	\$3,705 54

NEW BRICK SIDEWALKS.

STREETS.	SQ. YDS.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Bridge.....	202	\$ 80 00	\$ 81 79	\$ 8 50	\$170 29
John.	70	48 52	17 29	1 75	67 56
Lee.....	404	166 72	115 04	11 00	292 76
Market	175	42 00	43 29	5 25	90 54
	851	\$337 24	\$257 41	\$26 50	\$621 15

TOP-DRESSING STREETS.

STREETS.	LOCATION.	LINEAL FT.	SQ. YDS.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Andover	Nesmith St. to Park St..	209	1,277	\$100 00	\$159 09	\$16 00	\$ 275 09
Beacon	Methuen St. to Tenth St.	1,322	5,288	104 00	160 25	20 00	284 25
Tenth	Bridge St. to Methuen St.	320	1,027	154 70	89 94	11 00	255 64
Eleventh	Bridge St. to Methuen St.	275	856	104 00	100 65	31 50	236 15
		2,126	8,448	\$462 70	\$509 93	\$78 50	\$1,051 13

NEW STONE WALLS.

STREETS.	LINEAL FT.	LABOR.	TEAMING.	TOTAL COST.
Christian	162	\$254 26	\$22 00	\$276 26
Daly	89	95 34	10 38	105 72
Stevens	40	34 03	75	34 78
	291	\$383 63	\$33 13	\$416 76

REPAIRING BRIDGES.

STREETS.	LABOR.	STOCK.	TEAMING.	TOTAL COST.
Aiken	\$294 56	\$1,309 59		\$1,604 15
Aiken (Canal Bridge) ..	58 56	35 95	\$2 00	96 51
Bridge	15 19		2 25	17 44
Cambridge	4 13			4 13
Dutton	27 66	101 47	2 00	131 13
Lawrence	32 17			32 17
New Moody	4 79		56	5 35
Worthen	10 54	84 76	63	95 93
	\$447 60	\$1,531 77	\$7 44	\$1,986 81

PAINTING, PAVING, AND REPAIRING CENTRAL BRIDGE,

	LABOR.	STOCK.	TOTAL COST.
Paving	\$2,921 97	\$8,952 26	\$11,874 23
Building Parapet	61 80	67 60	129 40
Painting	781 10	438 10	1,219 20
	\$3,764 87	\$9,457 96	\$13,222 83

RELAYING CROSSINGS.

STREETS.	LINEAL FT.	LABOR.	TEAMING.	TOTAL COST.
Chelmsford	120	\$24 35		\$24 35
Common	60	13 22		13 22
Liberty	30	6 56		6 56
Middlesex	36	8 61	.75	9 36
	246	\$52 74	.75	\$53 49

RELAYING SIDEWALKS.

STREETS.	SQ. YDS.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Alder.....	177	\$ 67 06	\$ 25 24	\$ 2 00	\$ 94 30
Gorham....	166	72 50	50 38	5 50	128 38
Hurd	226	54 08	53 95	4 75	112 78
John	87	38 00	27 38	3 25	68 63
Lee	49	20 00	9 88	1 00	30 88
Market	181	51 00	44 95	4 50	100 45
Merrimack.	1,154	301 90	235 66	24 50	562 06
Middlesex..	46	20 00	18 04	1 50	39 54
Union.	294	35 00	29 00	3 25	67 25
Willow	98	41 00	33 62	1 14	75 76
	2,479	\$700 54	\$528 10	\$51 39	\$1,280 03

REPAIRING STREETS.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Adams.....	\$ 76		\$ 76
Aiken.....	2 25	\$ 38	2 63
Ames.....	1 89	28	2 17
Andover.....	10 48	2 63	13 11
Andrews.....	7 63		7 63
Appleton.....	2 75		2 75
Baldwin.....	60 00	12 00	72 00
Blossom.....	1 50	25	1 75
Boston Road.....	4 73	50	5 23
Branch.....	3 75	63	4 38
Bridge.....	46 88	4 95	51 83
C.....	1 00		1 00
Cabot.....	2 24		2 24
Central.....	11 93	1 75	13 68
Church.....	6 98	1 25	8 23
Chelmsford.....	9 70	1 37	11 07
Christian.....	469 51	22 78	492 29
Crosby.....	2 25	37	2 62
Cross..	12 95	1 13	14 08

REPAIRING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Decatur.....	\$ 5 43	\$ 50	\$ 5 93
Dummer.....	2 00	50	2 50
Dutton.....	2 00	25	2 25
East Merrimack....	6 33	75	7 08
Eleventh.....	72	13	85
Ellis Avenue.....	72	13	85
Fifth.....	17 50	2 50	20 00
First.....	4 00	50	4 50
Fifth Avenue.....	24 25	4 88	29 13
Fletcher.....	6 99	87	7 86
Foster.....	6 13	1 50	7 63
George.....	1 01	13	1 14
Gershom Avenue...	24 25	4 00	28 25
Gorham.....	174 80	17 25	192 05
High.....	12 38	2 63	15 01
Hildreth.....	72	13	85
Howard.....	2 55	25	2 80
Kinsman.....	2 14	38	2 52
Lawrence.....	10 75	1 00	11 75

REPAIRING STREETS—Continued.

STREETS:	LABOR.	TEAMING.	TOTAL COST.
Lane.....	\$ 2 38	\$ 46	\$ 2 84
Lagrange.....	1 50		1 50
Lakeview Avenue...	10 94	1 00	11 94
Liberty.....	108 76	20 00	128 76
Lincoln.....	2 00	25	2 25
London.....	2 00	25	2 25
Locke.....	2 75	1 00	3 75
Lundberg.....	20 26	6 50	26 76
Mansur.....	4 97	1 13	6 10
Market.....	1 89	28	2 17
Merrimack....	7 63	1 00	8 63
Meadowcroft.....	226 12	67 50	293 62
Middlesex.....	22 15	4 24	26 39
Moody.....	53 10	10 18	63 28
Mt. Vernon.....	9 00		9 00
Nesmith.....	14 13	2 12	16 25
Parker.....	8 63	3 50	12 13
Paige.....	7 28	50	7 78
Pawtucket.....	76 46	13 25	89 71

REPAIRING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Perry	\$ 7 38	\$ 1 00	\$ 8 38
Plain	22 76	9 00	31 76
Powell.....	6 63	1 50	8 13
Porter.....	3 71	63	4 34
Prescott.....	2 00	25	2 25
Reservoir.....	292 94	12 00	304 94
Richmond.....	16 26	6 00	22 26
Rogers	3 00	50	3 50
Salem.....	6 50		6 50
School.	7 45	2 25	9 70
Shaw	6 63	1 50	8 13
Sixth Avenue.....	7 88	1 00	8 88
Sixth.....	72	12	84
Stevens.....	229 00	65 50	294 50
Swift.....	75	13	88
Tanner.....	52 16	20 00	72 16
Thorndike.....	28 53	3 07	31 60
Thirteenth.....	7 25		7 25
Twelfth.....	4 63	1 00	5 63

REPAIRING STREETS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Varnum Avenue....	\$ 509 51	\$ 67 24	\$ 576 75
West Forrest.....	4 31	1 75	6 06
Westford.....	426 51	44 26	470 77
White	12 89	3 25	16 14
Willie.....	4 01	19	4 20
	\$3,209 21	\$463 85	\$3,673 06

GRADING STREETS.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
A.	183	\$ 22 13	\$ 13 50	\$ 35 63
Aiken Avenue...	2244	1,138 07	95 00	1,233 07
Baldwin.....	946	36 36	10 00	46 36
Beacon.....	1100	120 11	29 00	149 11
Bennett.	175	14 25	4 00	18 25
Blodgett.....	380	185 13	32 00	217 13
Blossom.....	1141	537 13	175 00	712 13
Boylston.....	697	671 53	207 00	878 53
Bowden.....	400	150 13	20 00	170 13
Broadway.....	1000	55 37	16 00	71 37
Bridge (Cinders).	1445	118 54	36 75	155 29
C.	800	76 22	40 50	116 72
Corner.....	250	111 32	21 00	132 32
Coburn.....	550	613 16	143 75	756 91
D.....	300	7 84	4 50	12 34
Ennell.....	1250	953 09	259 75	1,212 84
Foster.....	1045	59 89	20 25	80 14
Genoa Avenue...	1385	683 97	120 00	803 97
Harding.....	250	81 95	18 00	99 95

GRADING STREETS—Continued.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Hanks.....	210	\$ 24 40	\$ 3 38	\$ 27 78
Hildreth..	300	228 63	64 00	292 63
King.....	100	12 37	1 75	14 12
Ludlam	1320	522 49	215 13	737 62
Main.....	2291	222 75	106 00	328 75
Mammoth Road..	496	52 75	13 00	65 75
Marginal... ..	763	64 00	12 00	76 00
McAlvin.....	225	190 16	17 25	207 41
Middlesex.....	1793	1,036 88	214 50	1,251 38
Midland.....	1011	192 94	56 50	249 44
Parker.....	2079	567 87	183 00	750 87
Pawtucket.....	725	301 59	101 00	402 59
Perkins.....	200	45 44	16 00	61 44
Perry... ..	396	20 81	4 50	25 31
Phillips.....	450	151 51	50 50	202 01
Plain.....	2035	393 77	93 00	486 77
Riverside.....	1727	694 85	121 25	816 10
Sargent.....	375	83 61	24 75	108 36
Sayles.....	375	62 87	7 87	70 74

GRADING STREETS—Continued.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Seventh Avenue..	400	\$ 130 20	\$ 19 50	\$ 149 70
Shaw.....	800	265 27	60 50	325 77
Short.....	400	229 18	54 00	283 18
South Walker....	1243	73 22	24 50	97 72
Stevens	3375	248 93	37 50	286 43
Tenth.....	2299	350 03	67 75	417 78
Tolman Avenue,.	682	207 61	42 00	249 61
Washington	693	90 22	33 00	123 22
Wilder.....	558	28 25	3 00	31 25
Winthrop Avenue	695	20 00	13 00	33 00
Wood	300	38 91	11 25	50 16
Woodward Ave...	1110	724 59	133 25	857 84
	44,967	\$12,912 29	\$3,071 63	\$15,983 92

NEW EDGESTONES.

STREETS.	LINEAL FEET.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Adams.....	300	\$ 115 50	\$ 37 75	\$ 6 00	\$ 159 25
Blossom....	691	266 03	62 86	5 75	334 64
Daly.....	365	140 57	67 44	6 00	214 01
Dartmouth..	62	23 87	16 02	2 63	42 52
Dutton.....	149	57 37	36 44	3 62	97 43
Fletcher ...	50	19 50	8 88		28 38
Fourth Ave.	50	19 50	8 01		27 51
Genoa Ave.	1,217	468 54	116 47	21 75	606 76
Grace.....	512	197 12	68 12	7 50	273 74
John.....	57	21 94	9 87	1 00	32 81
King.....	205	78 92	32 86	1 87	113 65
Liberty	181	69 68	57 84	1 00	128 52
Market	69	26 57	18 35	2 25	47 17
New	365	140 52	44 87	6 75	192 14
New Moody	81	31 18	19 00	1 00	51 18
Pine.....	117	45 04	18 57	1 50	65 11
Sherman...	70	26 95	7 97	37	35 29
Stackpole..	80	30 80	12 00		42 80
Walker	350	134 75	49 06	4 63	188 44
Wilder.....	252	97 02	33 94	3 25	134 21
Worthen ...	62	23 87	10 63	1 00	35 50
	5,285	\$2,035 24	\$736 95	\$77 87	\$2,850 06

REPAIRING SIDEWALKS.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Andover	\$ 1 44	\$ 25	\$ 1 69
Appleton	94		94
Bartlett	1 29	13	1 42
Bowers	2 56	25	2 81
Central.....	4 64	56	5 20
Chestnut	2 56	25	2 81
Chelmsford.....	8 34	3 00	11 34
Clark	1 50	25	1 75
Court....	2 75	50	3 25
Congress	8 18	1 25	9 43
Dutton	4 75	50	5 25
Fayette.....	1 92	19	2 11
Fletcher	75	13	88
Gorham	11 91	1 38	13 29
Hale	5 63	75	6 38
Hurd.....	1 01	13	1 14
Lawrence.....	1 50		1 50
Lakeview Avenue.....	1 70	19	1 89
Lincoln.....	12 47	3 75	16 22
Manchester.....	5 50	1 00	6 50
Mammoth Road ...	59 01	6 00	65 01
Merrimack	2 13	13	2 26
Middlesex.	2 34		2 34
Middle	75	13	88

REPAIRING SIDEWALKS—Continued.

STREETS.	LABOR.	TEAMING.	TOTAL COST.
Moody.....	\$ 4 37	\$ 75	\$ 5 12
Prescott	3 14	13	3 27
Quebec.....	10 59	75	11 34
Race	75	13	88
Rogers	8 41	1 62	10 03
Salem	3 21	31	3 52
School.....	3 21	31	3 52
Seventh ..	99	12	1 11
Stevens	4 38	37	4 75
Suffolk.....	72	12	84
	\$185 34	\$25 33	\$210 67

NEW GRANITE CROSSINGS.

STREETS.	LINEAL FEET.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Bridge.....	56	\$ 39 76	\$ 19 72	\$ 2 00	\$ 61 48
Durant	140	99 40	48 30	5 07	152 77
Gorham	364	258 44	106 35	9 50	374 29
Liberty	76	53 96	18 24	1 07	73 26
Mammoth Road..	76	53 96	29 81	2 63	86 40
New Moody.....	96	68 16	33 75	2 25	104 16
Nesmith.	56	39 76	27 15	2 25	69 19
Pawtucket.....	75	53 25	28 01	4 06	85 32
Sherman.....	62	44 02	19 18	1 88	65 08
Stackpole.....	150	106 50	38 25	2 62	147 37
Westford.....	56	39 76	27 16	3 75	70 67
	1,207	\$856 97	\$395 91	\$37 08	\$1,289 96

MISCELLANEOUS.

DESCRIPTION.	SQ. YARDS.	LINEAL FEET.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Grading Lawn	653		\$15 70	\$ 37 96	\$ 4 50	\$ 58 16
Cinder Crossings				2 88	50	3 38
Building Culverts		60		25 25	4 50	29 75
Repairing Gutters				2 87	50	3 37
Repairing Driveways ..				2 50	31	2 81
Setting Backstone		1,250		54 62	9 75	64 37
Rolling Streets				38 78		38 78
New Fences				61 71	15 26	76 97
Lowering Sidewalks ..		400		54 06	5 75	59 81
Teaming Sand				595 96	287 38	883 34
Sanding Walks				681 79	174 12	855 91
Ledge				13,552 78		13,552 78
	653	1,710	\$15 70	\$15,111 16	\$502 57	\$15,629 43

REPORT OF THE

MACADAMIZED STREETS.

STREETS.	LOCATION.	LINEAL FEET.	SQ. YDS.	STOCK.	LABOR.	TEAMING.	TOTAL COST.
Cedar.....	Keene Street to Central Street.....	745	2235	\$ 494 00	\$ 22 65	\$ 51 50	\$ 768 15
Chelmsford.....	Plain Street to Jenness Street.....	1715	6860	1,244 10	1,516 03	274 00	3,034 13
Colburn.....	Merrimack Street to Moody Street.....	150	466	280 80	682 71	20 62	369 69
Congress.....	Thorndike Street to Gorham Street.....	300	933	434 20	179 22	67 75	681 17
Durant.....	From Third Street, easterly.....	1177	4708	2,931 93	1,530 31	596 62	5,058 86
Knapp Avenue.....	Between Rogers Street and Park Avenue.....	875	3500	434 20	142 65	33 88	610 73
Liberty.....	Osgood Street to Pine Street.....	1166	3628	1,865 50	896 10	171 50	2,933 10
Mammoth Road.....	Eighth Avenue to Old Meadow Road.....	880	3520	674 70	336 22	87 00	1,097 92
Moody.....	Spaulding Street to Pawtucket Street.....	242	968	666 90	395 63	16 25	1,078 78
Mt. Washington.....	Varney Street to Bowers Street.....	756	2352	560 30	242 18	49 13	851 61
New.....	Crosby Street to Lyon Street.....	150	333	154 70	53 17	3 25	211 12
New Moody.....	Bridge to Riverside Street.....	858	3432	829 40	158 44	35 94	1,023 78
Powell.....	Liberty Street to Chelmsford Street.....	2332	7255	3,617 90	1,793 85	508 13	5,919 88
Rock.....	Fletcher Street to Willie Street.....	975	3030	676 00	134 11	19 25	829 36
Stackpole.....	Fayette Street to Alder Street.....	1067	4268	2,089 40	721 79	194 13	3,005 32
Sutherland.....	Hildreth Street to Barker Avenue.....	825	2567	1,001 30	715 47	206 70	1,923 47
Thirteenth.....	Bridge Street to June Street.....	715	2224	271 70	208 70	28 56	508 96
Twelfth.....	Bridge Street to Wachusett Street.....	275	855	148 20	79 71	10 50	238 41
Walker.....	Broadway to Middlesex Street.....	1375	4278	2,233 40	1,069 30	257 00	3,559 70
Willow.....	Between East Merrimack Street and Andover..	715	2960	980 15	254 86	92 50	1,327 51
		17,293	58,977	\$21,588 78	\$10,718 66	\$2,724 21	\$35,031 65

RESETTING EDGESTONES.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Alder	280	\$ 38 02		\$ 38 02
Ames	6	3 21	\$ 31	3 52
Beech	40	5 31	50	5 81
Central.....	25	4 75	50	5 25
Common	165	16 50		16 50
Congress.....	50	4 31		4 31
Dover	1628	140 15		140 15
Fort Hill Avenue	650	89 01		89 01
Gorham	210	29 22	3 63	32 85
Hanks.	865	72 63		72 63
Hurd.....	140	24 81	2 00	26 81
John	85	22 22	1 12	23 34
Lakeview Avenue	115	14 82	1 50	16 32
Lee	475	50 39	4 13	54 52
Market.....	191	33 15	4 25	37 40
Merrimack	875	161 07	15 50	176 57
Middlesex.....	52	11 62	1 00	12 62
Pine	150	19 69		19 69
Powell	15	2 25	38	2 63

RESETTING EDGESTONES—Continued.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Sherman	176	\$ 6 76		\$ 6 76
Stackpole	614	89 87	\$ 50	90 37
Thorndike.....	205	32 12	2 00	34 12
Union	161	32 01	4 00	36 01
West Fourth....	1290	86 52		86 52
Willow	475	49 40		49 40
Worthen	42	10 63	1 00	11 63
	8980	\$1,050 44	\$42 32	\$1,092 76

REPAIRING CINDER WALKS.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Arthur.....	540	\$10 75	\$ 1 63	\$ 12 38
Bellevue.....	75	1 00	25	1 25
Burt.....	66	3 25	37	3 62
Cedar.....	120	6 00	1 50	7 50
Chelmsford... ..	370	12 38	2 56	14 94
Fletcher.....	150	4 00	1 00	5 00
Franklin.....	25	1 12	25	1 37
Hastings.....	30	30	13	63
Harvard.....	510	14 75	2 00	16 75
Keene.....	25	2 00	50	2 50
Lawrence.....	1780	61 22	21 50	82 72
Lane.....	360	7 53	1 75	9 28
Lakeview Avenue	965	16 50	4 12	20 62
Mammoth Road.	50	2 25	50	2 75
Moore.....	75	4 03	1 50	5 53
Mt. Vernon.....	680	25 25	4 00	29 05
Powell.....	1415	41 75	5 37	47 12
Rock.....	840	28 57	5 00	33 57
Shaw.....	350	10 25	2 13	12 38

REPAIRING CINDER WALKS—Continued.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Smith.....	508	\$ 19 50	\$ 2 25	\$ 21 75
Somerset.....	105	4 50	1 13	5 63
Stevens.....	560	14 75	2 00	16 75
Summer.....	40	2 75	50	3 25
White.....	25	1 12	25	1 37
	9664	\$295 52	\$62 19	\$357 71

CINDER SIDEWALKS.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Aiken	465	\$ 37 19	\$ 11 75	\$ 48 94
Anderson	375	26 47	8 75	35 22
Barrington.....	315	25 03	9 00	34 03
Blodgett.....	600	24 63	4 75	29 38
Boylston.....	935	79 76	30 00	109 76
Bowden	60	4 97	75	5 72
Bourne	50	5 63	1 00	6 63
Broadway	267	14 25	5 00	19 25
Butman Road ...	150	15 63	3 50	19 13
Chapel	175	8 07	1 75	9 82
Chelmsford.....	120	5 19	1 50	6 69
Coburn.....	480	30 50	10 00	40 50
Daly	450	23 64	4 91	28 55
Davidson	1005	33 25	5 00	38 25
Dutton.....	175	14 00	4 00	18 00
Ennell	2300	137 50	29 00	166 50
Fairmount	985	91 94	32 40	124 34
Fifth Avenue ...	180	8 13	3 00	11 13
Fletcher	114	3 06	75	3 81

CINDER SIDEWALKS—Continued,

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Fort Hill Avenue	295	\$ 22 12	\$ 8 31	\$ 30 43
Gorham.....	340	20 51	3 75	24 26
Grace.....	512	51 00	8 00	59 00
Hale.....	844	36 38	12 75	49 13
Hanks.....	271	14 84	3 88	18 72
Hildreth.....	200	13 38	1 50	14 88
Howard.....	137	24 00	9 00	33 00
Hoyt Avenue....	597	31 52	7 50	39 02
Hutchinson.....	350	19 42	3 93	23 35
Jewett.....	50	2 81	50	3 31
Lawrence.....	2140	142 25	34 00	176 25
Laurel.....	100	8 13	3 50	11 63
Leverett.....	300	18 94	4 38	23 32
Liberty.....	263	9 94	3 00	12 94
Lincoln.....	783	63 38	18 00	81 38
Ludlam.. ..	300	16 26	6 00	22 26
Merrill.....	550	15 38	3 00	18 38
Middlesex.....	1680	78 17	12 13	90 30
Moody.....	100	6 75	2 25	9 00

CINDER SIDEWALKS—Continued.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Moore	1155	\$ 87 45	\$25 69	\$113 14
New	182	11 51	1 00	12 51
New Moody.....	300	12 19	4 50	16 69
Pentucket Ave..	170	21 26	11 00	32 26
Perry.....	480	16 07	7 00	23 07
Phoebe Avenue..	100	9 19	1 87	11 06
Plain.....	913	61 35	15 25	76 60
Powell	180	11 97	3 75	15 72
Rogers.....	1026	30 59	11 37	41 96
Sagamore.....	680	81 38	18 42	99 80
Sarah Avenue....	210	15 31	3 13	18 44
Sayles	786	29 25	2 25	31 50
South	950	35 40	6 88	42 28
South Highland..	150	6 81	2 00	8 81
Starbird.....	635	44 31	14 25	58 56
Stackpole	1250	106 15	19 13	125 28
Stevens.....	945	31 00	5 00	36 00
Thorndike	885	40 76	9 75	50 51
Tolman Avenue..	682	11 38	2 00	13 38

CINDER SIDEWALKS—Continued.

STREETS.	LINEAL FEET.	LABOR.	TEAMING.	TOTAL COST.
Walker	600	\$ 21 06	\$ 5 00	\$ 26 06
Washington	1240	96 38	26 62	123 00
Walnut.....	100	8 06	1 75	9 81
Warwick.....	75	2 25	37	2 62
Webber Avenue..	245	9 75	2 00	11 75
West Adams.....	100	6 50	1 00	7 50
Whipple	130	8 27	1 75	10 02
Wilder.....	345	27 51	9 00	36 51
	33,527	\$2,027 13	\$523 92	\$2,551 05

CONCRETE SIDEWALKS REPAIRED IN 1905.

STREETS.	LOCATION.	COST.	SQ. YDS.
Adams	West side, from Cross Street, southerly	\$11 25	25.0
Adams	East side, from Suffolk St., southerly ...	8 35	18.6
Aiken	West side, at Lakeview Avenue	1 53	3.4
Ames	South side, from Central St., easterly.....	14 26	31.7
Andover	North side, from premises No. 324.....	55 68	123.8
Bridge.....	West side, at Amory Street	95	2.1
Broadway	North side, at Suffolk Street	1 71	3.8
Broadway	South side, opposite Lewis Street.....	3 96	8.8
Central	East side, bet. Richmond and Ames Sts..	19 94	44.2
Coburn	West side, at Lakeview Avenue	81	1.8
Concord	West side, at Sherman Street	11 07	24.6
Cross.....	South side, from Adams Street, west-erly	3 60	8.0

CONCRETE SIDEWALKS REPAIRED IN 1905.
(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Dover	East side, bet. West- ford and Grove Sts ...	\$ 73 66	163.7
Dover	West side, bet. West- ford and Grove Sts ...	72 36	160.8
Fletcher	West side, from No. 434, northerly	3 91	8.7
Fletcher	East side, at Paw- tucket Street	4 32	9.6
Fort Hill Ave .	North side, from No. 28 to Oak street	22 50	50.0
Fourth	North side, from No. 70, easterly	9 36	20.8
Front	North side, (hard con- crete.	31 10	31.1
Front	North side	136 26	302.8
Hanks	East side, bet. Sher- man and Rogers Sts..	66 55	147.9
Highland	South side.	44 50	98.6
Highland	North side	3 06	6.8
Howard	West side	95	2.1
Howard	West side, from Chelmsford Street northerly	18 72	41.6

CONCRETE SIDEWALKS REPAIRED IN 1905.

(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Jefferson	East side, from Market St., southerly	\$20 65	45.9
John.....	Westside, Y. W. C. A. Building	45 50	98.9
Lakeview Ave.	South side, at Aiken St..	4 05	9.0
Lawrence.....	West side, at Hudson Street	1 80	4.0
Liberty.....	South side, between School and Hastings..	31 18	69.7
Liberty.....	South side, between So. Walker and Warwick Sts. (hard concrete)	42 16	42.2
Liberty.....	North side, at No. 271 (hard concrete)	4 30	4.0
Linden	East side, opp. Court House	13 85	13.8
Livermore	West side, near Stackpole Street.....	3 69	8.2
Merrimack ...	South side, at No. 484..	6 66	14.8
Nesmith	West side, near No. 123..	11 25	25.0
Oak	South side, at Fort Hill Ave	77	1.7

CONCRETE SIDEWALKS REPAIRED IN 1905.

(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Pine.....	North side, from Wil- der St. easterly	\$ 9 99	22.2
Pleasant.....	East side	3 71	8.6
Salem	North side, between No. 129 and Cabot St..	27 00	60.0
Salem	South side, from Willie Ave. easterly.....	4 50	10.0
School	East side, at No. 164....	8 95	19.9
Second	North side, near Bridge St. (hard concrete)...	12 40	12.4
Second	North side, near Bridge St	3 69	8.2
Sherman.....	South side, from Hanks St. easterly	5 67	12.6
Sixth	South side, between Beacon and Vernon Sts	23 09	51.3
Sixth	North side, between Read and Bridge Sts..	5 40	12.0
Stackpole.....	South side, between Livermore and Alder Streets	185 22	411.6
Stackpole.....	South side, between Livermore and Alder Streets	43 00	43.0

CONCRETE SIDEWALKS REPAIRED IN 1905.
(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Stevens	West side, at No. 657 (hard concrete)	\$88 20	88.2
Stevens	West side, at No 657 (hard concrete)	3 84	6.4
Third	South side, in front No. 59	9 58	9.6
Thorndike	West side, front pre- mises Livingston Coal Co	30 37	67.5
Walker	West side, at Broadway ..	1 30	2.9
Wannalancit ..	West side	35 50	78.9
Wannalancit ..	East side	24 70	54.9
Westford	North side, at Dart- mouth St.	1 17	2.6
West Fourth..	North side	37 05	82.5
West Fourth..	North side, (hard con- crete)	10 60	10.6
West Fourth..	South side	36 50	81.1
West Fourth..	South side, (hard con- crete)	15 90	15.9
Wilder	West side, between Westford and Prince- ton Streets	7 60	17.0

CONCRETE SIDEWALKS REPAIRED IN 1905.
(Continued.)

STREETS	LOCATION.	COST.	SQ. YDS.
Willow	East side, between An- dover and Chestnut Streets	\$ 7 83	17.4
Willow	East side, between Chestnut and East Merrimack Streets...	64 08	142.4
Willow	East side, between Chestnut and East Merrimack Sts (hard concrete)	7 50	7.5
Worthen.....	West side.....	21 70	21.7
		\$1,542 26	3,056.4

WOODEN BLOCK PAVEMENT LAID IN 1905.

STREETS.	LOCATION.	COST.	SQ. YDS.
	On Central Bridge.....		1659.0

ASPHALT PAVEMENT REPAIRED IN 1905.

STREETS.	LOCATION.	COST.	SQ. YDS.
Aiken	Between Hall Street and Aiken Street Bridge.....	\$141 05	80.60
Broadway.....	Between Adams and Willie Sts...	60 72	34.70
Gorham	Between Fay and Spencer Sts....	20 65	11.80
Hall.....		89 95	51.40
		\$312 37	178.50

CONCRETE PAVEMENT REPAIRED IN 1905.

STREETS.		COST.	SQ. YDS.
Mammoth Road.	Hard Top Dressing.....	\$ 8 75	12.50
Pawtucket	Hard Top Dressing.....	414 89	592.70
Pawtucket Sq..	Hard Concrete.....	11 40	11.40
		\$435 04	616.60

BICYCLE PATHS REPAIRED IN 1905.

STREETS.	LOCATION.	COST.	SQ. YDS.
Bridge	Both sides, between Merrimack Square and Central Bridge.....	\$280 28	400.4

CONCRETE CROSSINGS LAID IN 1905.

STREETS.	LOCATION.	COST.	SQ. YDS.
Cabot	North of Cheever Street.....	\$35 90	35.9

CONCRETE CROSSINGS REPAIRED IN 1905.

STREETS.	LOCATION.	COST.	SQ. YDS.
Bridge	West side, at Shedd St. Hard Top Dressing.....	\$ 9 80	14.00
John	At John Street Avenue.....	17 50	17.50
Princeton	At Edson Street. Hard Top Dressing.....	28 87	41.25
Walker.....	At Schaffer Street. Hard Top Dressing.....	10 71	15.30
Walker.....	At Schaffer St. Hard Concrete...	15 40	15.40
		\$82 28	\$103 45

GRANOLITHIC SIDEWALKS LAID IN 1905.

STREETS.	LOCATION.	SQ. YDS.
Dutton.....	West side, in front premises Mathew Temp. Inst.....	29.30
Fletcher.....	East side, from Worthen Street westerly in front premises Ryan Bros.....	82.75
Merrimack....	South side, in front premises Hiram Whitney.....	60.78
Worthen.....	West side, in front premises Ryan Bros.....	75.94
		248.77

SIDEWALKS ACCEPTED IN 1905.

STREETS.	LOCATION.	DATE OF PASSAGE.	DESCRIPTION.
Bellevue..	West side, from point 360 ft. N. of Thayer St., 50 ft. northerly...	June 27	Concrete
Chapel...	East side, from Cent- ral Street, northerly 104 feet.....	June 13	Edge and Con.
Norcross.	North side, from point 530 ft. W. of Chelms- ford St., 90 ft. west- erly.....	Oct. 3	Edge and Con.
Puffer ...	East side, from C St., northerly 50 feet.....	Oct. 3	Concrete

STREET NAMES CHANGED.

STREETS.	LOCATION.	NEW NAMES.
Avon	From Middlesex Street to Westford Street	Lauriat Street
Coranell Av.	From Tolman Avenue to Tolman Avenue	Hayes Avenue
Court.....	From Gorham Street to Linden Street.....	Hobson Street
Court.....	From Woodward Avenue, northwesterly.....	Courtland Street
Davis.....	From Wright St., south- westerly.....	West Fifth Ave.
Dewey Ave..	From Stevens St., westerly.	Chatham Street
Falmouth...	From Fairfield St., east- erly and westerly	Hanson Street
Fulton.....	From Willie St., westerly...	Farnham Street
Hovey	From Lakeview Avenue to Essex Street.....	Fisher Street
James.....	From French Street to Amory Street.....	Sirk Street
James.....	From Washer St., south- erly	Walsh Street
Sterling	From Fairfield St., west- erly	Fleming Street
Third Ave..	From Mt. Hope Street to Emery Avenue.....	White Street
Street.....	From Bridge Street to Canal Street	Fairweather Ave.

CONCRETE SIDEWALKS TOPDRESSED IN 1905.

STREETS.	LOCATION.	COST.	SQ. YDS.
Adams.....	West side, from Cross Street, southerly	\$ 24 81	82.7
Adams.....	East side, from Suffolk Street, southerly	20 00	66.7
Aiken.....	West side, at Lakeview Avenue	93	3.1
Alder.....	West side.....	15 34	34.1
Ames.....	South side, from Central Street, easterly....	6 78	22.5
Andover	North side, front premises No. 324.....	31 07	103.6
Bridge.....	East side, southerly end of Central Bridge.	12 42	41.4
Central	East side, between Richmond and Ames Streets.....	3 87	12.9
Central	East side, at No. 432....	3 27	10.9
Charles	North side, from Central Street, westerly...	12 06	26.8
Church	South side, from R. R. crossing to Lawrence Street... ..	33 32	111.1
Coburn	West side, at Lakeview Avenue.....	2 55	8.5

CONCRETE SIDEWALKS TOPDRESSED IN 1905.

(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Coburn	East side, at Lakeview Avenue	\$ 4 08	13.6
Concord	East side, from Sherman Street, northerly.	92 19	307.3
Concord	West side at No. 283....	4 08	13.6
Concord.....	West side, from No. 191 to No. 307	103 92	346.4
Cross.....	South side, from Adams Street, westerly	8 67	28.9
D.....	South side, from Spaulding Street, westerly...	21 81	72.7
Dover.....	East side, between Westford and Grove Streets.....	48 44	194.8
Dover.	West side, between Westford and Grove Streets.....	59 49	198.3
Dover.....	West side, between Westford and Grove Streets.....	4 06	5.8
Fenwick	East side, from Market Street, southerly to No. 56	28 20	94.0

CONCRETE SIDEWALKS TOPDRESSED IN 1905.

(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Fletcher	West side, from No. 434 northerly.....	\$ 26 49	88.2
Fletcher	East side, between Broadway and Cross Street.....	44 73	149.1
Fort Hill Ave .	North side, from No. 28 to Oak Street.....	43 89	146.3
Fort Hill Ave.	South side, from Oak Street, northerly	25 17	83.7
Fort Hill Ave.	South side, from Oak Street, northerly (H. T. D.)	5 34	8.9
Fourth	North side, from No. 70, easterly.....	45 87	152.9
Front.....	North side.	25 35	84.5
Gorham.....	West side, at No. 513...	17 49	58.4
Grove.	South side, between Wilder and Dover Streets.....	50 46	168.2
Hanks	East side, between Sherman and Rogers Streets.....	85 05	283.5
Hanks	West side, from Sherman Street, southerly.	19 26	64.2

CONCRETE SIDEWALKS TOPDRESSED IN 1905.
(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Hanover	East side, between Market and Merri- mack Streets.....	\$ 44 16	147.2
High	East side, from Sher- man Street, northerly.	33 09	110.3
Highland	South side.....	114 39	381.3
Highland	North side.....	4 40	14.7
Highland	South side, (Hard Top Dressing).....	29 26	48.8
Hildreth	West side, at No. 262 ...	20 82	69.4
Hildreth	West side, from Lilley Avenue, northerly....	8 76	29.2
Howard.....	West side, from Chelms- ford Street, northerly	61 77	205.9
Howard.	East side, from Chelms- ford Street, northerly.	19 30	64.3
Lakeview Ave.	South side, at Aiken Street.....	5 52	18.4
Lakeview Ave.	North side, at No. 173...	11 01	36.7
Lawrence, ...	West side, at Hudson Street.....	2 97	9.9
Lawrence.	East side, front No. 256.	8 13	27.1

CONCRETE SIDEWALKS TOPDRESSED IN 1905.

(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Leroy	South side.....	\$ 6 96	23.2
Liberty	South side, between School and Hastings Streets.....	45 57	151.9
Liberty	South side, between So. Walker and War- wick Streets.....	15 27	50.9
Lilley Ave....	North side, at Hildreth Street.....	22 38	74.6
Linden	East side, opp. Court House	1 60	5.3
Marion	Common and Middle- sex Street.....	1 45	4.9
Merrimack....	South side, from No. 628 to No. 632, (H. T. D.)	34 04	48.2
Merrimack....	South side, at No. 484...	18 59	61.6
Merrimack....	North side, at No. 649...	18 96	63.2
Merrimack....	North side, front Hose House, No. 8.....	30 87	44.1
Middlesex	South side, at McIntire Street.....	2 85	9.5
Nesmith	West side, near No. 125.	18 98	63.2

CONCRETE SIDEWALKS TOPDRESSED IN 1905.

(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Nesmith	West side, front No. 305.	\$ 22 54	75.2
Paige	South side, from No. 115, easterly.....	33 67	112.3
Pawtucket	North side, at Ayer Home.....	47 04	156.8
Pawtucket	North side, front Ayer Home, (H. T. D.)	61 51	87.9
Pine	North side, from Wild- er Street, easterly	31 49	105.0
Pond	North side, between High and Pleasant Streets.....	23 16	77.2
Queen	West side, between Middle'x and Branch Streets....	10 80	36.0
Race	West side, at No. 52....	10 83	36.1
Salem	North side, between No. 129 and Cabot Street.....	94 65	315.5
Salem	North side, between No. 129 and Cabot Street, (H. T. D.)....	7 86	13.1
Salem	South side, from Willie Avenue, easterly.....	10 98	36.6

CONCRETE SIDEWALKS TOPDRESSED IN 1905.
(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
School	West side, between Grove and Westford Streets.....	\$57 66	192.2
School	West side, between Grove and Westford Streets.....	4 97	7.1
School	East side, at No. 164....	14 37	47.9
Sherman	North side, between Concord and Pleas- ant Streets.....	30 06	100.2
Sherman	South side, from Hanks Street, easterly.....	6 21	20.7
Sixth :	South side, between Beacon and Vernon Streets.....	7 56	25.2
South	East side, in front No. 160	10 38	34.6
Stevens	West side, at No. 657 (H. T. D.).....	6 40	6.4
Thirteenth	North side in front No. 34	18 77	62.6
Thorndike	East side, between Summer and Apple- ton Streets.....	35 10	117.0

CONCRETE SIDEWALKS TOPDRESSED IN 1905.

(Continued.)

STREETS.	LOCATION.	COST.	SQ. YDS.
Tyler.....	South side, near No. 71, (H. T. D.)... ..	\$ 6 76	9.8
Walnut	North side, between Central and Chapel Streets.....	21 46	71.6
Wannalancit ..	West side.....	73 83	246.1
Westford	North side, from Fos- ter Street, easterly...	34 11	113.7
West Fourth..	North side.....	80 64	268.8
West Fourth..	South side.....	83 55	278.5
Wilder	West side, between Westford and Prince- ton Streets.....	41 68	133.6
Wilder....	West side, opp. Grove Street, (H. T. D.)....	9 24	13.2
Willie Ave	East side, at Salem Street.....	5 04	18.8
Willow....	East side, between Andover and Chest- nut Streets.....	70 32	234.4
		\$2,494 10	7903.5

NEW SIDEWALKS BUILT IN 1905.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.
Blossom	Both sides, between West(Autumn)and Border Streets.....	9.0	678.5	
Broadway...	South side, from point about 39 feet west to Walker St., 68.8 ft. westerly to edge- stone previously laid.		68.8	
Burtt.....	Both sides, east side, from Westford St., to No. 30, west side from Westford St., to No. 9.....			102.4
Daly.....	North side.....	14.3	349.9	
Dartmouth..	West side, in front premises Amelia E. Sherman.....		61.6	37.6
Dutton	East side, near cor. Merrimack St., for- merly used as en- trance to Hunting- ton Hall		90.9	
Genoa Ave..	Both sides, from Sarah Avenue to Bodwell Avenue	18.5	1198.5	
Gorham	West side, front prem- ises Martha Clark....			33.2

NEW SIDEWALKS BUILT IN 1905.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.
Grace	Both sides, from Lib- erty St. to Burgess Street.....		502.1	
King	West side.	19.2	185.2	
New.	Both sides	37.3	327.6	
Pine.	South side, from Wild- er Street, easterly... .	7.4	108.7	
Sherman....	South side, front prem- ises Mary E. Sprague		70.1	
Stackpole...	South side, front No. 115, 117.....	9.6	70.7	
Tenth.	South side, front School House Lot....			67.8
Varnum....	East side, front School House Lot....			74.4
Wannalancit	West side, front Bart- lett School	9.5	342.0	212.4
Wilder	West side, from Broad- way, westerly.....	9.5	240.6	
Wilder	East side, front prem- ises Guildford D. Farley.....	4.9	49.7	
		139.2	4344.9	527.8

SIDEWALKS.

RESOLUTIONS PASSED, BUT SIDEWALKS NOT COMPLETED.

STREETS.	LOCATION.	Passed 1905.	Edgestone to be laid.	Sq. Yards Concrete to be laid.
Alder	East side, from East Merri- mack St. to Stackpole St.	July 25	397.0	
Astor	South side, from Sherman St. easterly 237 ft. ...	Dec. 26	237.0	
Autumn	Both sides, from Maple St. to Blossom St.	Dec. 5	1167.0	
Broadway	South side, front premises David E. Ready and A. Tsangares	Nov. 28		49.7
Burt	Both sides, east side, from West- ford St., to No. 30, where side- walks are not already laid	July 11		61.4
Cheever	South side, in front No. 200, 202	May 2	115.0	70.3
Genoa Ave.	Both sides, from Moody St. to Sarah Ave.	Dec. 26	644.8	
Grace	East side, from Liberty St. to Burgess St.	Nov. 28		248.0

SIDEWALKS—Continued.

RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.

STREETS.	LOCATION.	Passed 1905.	Edgestone to be laid.	Sq. Yards Concrete to be laid.
Hovey	South side, in front premises Henrietta Crow- thers, et al.	July 25		39.7
London	Both sides, from Autumn St. to Border St.	Dec. 26	697.5	
Maple	South side, from Gorham St. to West (Autumn) St	Nov. 28	945.0	
Methuen	North side, from Humphrey St. easterly 100 ft. ...	Dec. 26	100.0	
Parkview Ave.	East side, Hovey St. to Mansur St. where con- crete sidewalk is not already laid	July 25		383.9
Wilder	West side, Broad- way northerly about 350 ft.	June 27		151.4
			4303.3	1004.4

STREETS LAID OUT AND ACCEPTED IN 1905.

STREETS.	LOCATION.	WIDTH IN FEET.	LENGTH IN FEET.
Autumn, form- erly West...	From Maple Street to Blossom Street.....	30	634.0
Belrose Ave...	From Hanks Street to Waverly Avenue....	40	367.8
Blossom.....	From West Street to Border Street	40	370.0
Bond.....	From Highland Ave. to Stevens Street.....	30	290.0
Carter	From Gorham Street to Bleachery Street...	35	599.1
Columbia.....	From Princeton Street to Middlesex Street...	40	665.0
Eustis Ave....	From Hildreth Street to Bridge Street.....	40	1249.8
Genoa Ave....	From Moody Street to Sarah Avenue	40	337.5
Hanks	From Rogers Street to Fort Hill Park	40	517.4
Hoyt Ave	From Hanks Street to Waverly Avenue.....	40	458.7
Ina	Extended to Fourth Avenue	30	164.9
London.....	From Autumn Street to Border Street	40	369.4
Short.....	From Chelmsford St. to Manufacturers St...	40	383.7

STREETS LAID OUT AND ACCEPTED IN 1905.
(Continued.)

STREETS.	LOCATION.	WIDTH IN FEET.	LENGTH IN FEET.
Rhodora	From Parker Street to Wedge Street	40	605.9
Tolman Ave.	From Mammoth Road to Hayes Avenue	40	740.4
Waverly Ave.	From Rogers Street to Belrose Avenue	40	409.3
Wedge	From land of James Walsh to land of Har- vey B. Greene	40	491.4
Westchester	From Stevens Street to Fairfield Street	40	662.2
West Tenth	From Bridge Street to Hampshire Street	25 and 30	409.4
Woodward Ave.	From westerly end as formerly accepted to easterly line of land of Benjamin Tanner	40 and 41	236.5
			9962.4 = 1.89 miles

Number of miles of Accepted Streets, Jan. 1, 1905 .. 127.01
 Number of miles of Streets Accepted in 1905. 1.89

Number of miles of Accepted Streets, Jan. 1, 1906 .. 128.90

Gorham Street has been widened at the intersection of its easterly line with the southerly line of Central Street by taking 384.7 square feet from land of Hannah E. Barrows.

STREET CATCH BASINS BUILT DURING THE
YEAR 1905.

STREETS.	LOCATION.	COST.
Astor.....	South side, 7 ft. east of east line, Fort Hill Avenue.....	\$ 60 82
Chelmsford.....	East side, 9 feet north of north line, Doane Street....	57 83
Chelmsford.....	West side, 14 feet north of north line, Jenness Street...	57 83
Coburn.....	East side, 100 feet south of south line, Hildreth Street.	53 65
Coburn.....	West side, 118 feet south of south line, Hildreth Street.	53 65
Cosgrove.....	South side, 222 feet west of west line, Stronquist St....	51 11
Cosgrove.....	North side, 222 feet west of west line, Stronquist St....	52 10
Cross (rebuilt)....	South side, 11 feet west of east line, Common Street ..	68 08
Daly.....	East side, 119 feet south of south line, Chelmsford St..	49 05
Dane (rebuilt)....	South side, 3 feet west of west line, Gage Street.....	54 02
Dartmouth....	South east intersection of Princeton Street	45 03
Dartmouth.....	West side, 2 feet south of south line, Princeton St....	49 02

STREET CATCH BASINS BUILT DURING THE
YEAR 1905—Continued.

STREETS.	LOCATION.	COST.
Dover	West side, 251 feet south of south line, Grove Street....	\$68 28
Dover	East side, 235 feet south of south line, Grove Street....	68 28
Durant	South side, 280 feet west of west line, Beacon Street...	63 98
Durant	North side, 181 feet west of west line, Beacon Street ...	63 98
Durant	North side, 18 feet east of west line, No. 1 Durant Street	63 98
Eustis Ave.....	North side, 17 feet east of east line, No. 65 Eustis Avenue	82 09
Eustis Ave.....	South side, 17 feet east of east line, No. 75 Eustis Avenue	82 09
Forest.....	North side, 3 feet west of west line, Blodgett Street..	55 74
Fulton.....	West side, 170 feet south of south line, Mt. Vernon St..	52 16
Gershom Ave. ...	South side, 5.5 feet west of angle in Gershom Avenue..	49 43
Gorham (rebuilt)..	West side, 21 feet south of south line, Central Street..	53 56

STREET CATCH BASINS BUILT DURING THE
YEAR 1905—Continued.

STREETS.	LOCATION.	COST.
Grove	South west intersection of Grove and Dover Streets...	\$68 28
Hoyt Ave.	South west intersection of Hoyt and Waverly Aves....	53 15
Jewett.....	East side, 37 feet north of north line, Coburn Street..	61 86
Laurel.....	North side, 106 feet east of angle in Laurel Street	52 93
Laurel.....	South side, 106 feet east of angle in Laurel Street	52 93
McAlvin.....	West side, 5 feet north of north line, Knapp Avenue..	57 67
McAlvin.....	North east intersection Mc- Alvin St. and Knapp Ave...	54 35
Middlesex	2 track, 143 feet west of west line, Columbia Street	30 56
Middlesex	2 track, 35 feet west of west line, No. 1463 Middlesex St., (Put in by R. R.).	30 57
Parker	South side, 85 feet east of east line, Wilder Street....	55 90
Parker	North side, 99 feet east of east line, Wilder Street..	55 90

STREET CATCH BASINS BUILT DURING THE
YEAR 1905—Continued.

STREETS.	LOCATION.	COST.
Sanborn.....	South side, 4 feet east of east line, Vernon Street....	\$59 98
Sargent.....	North side, 7 feet east of east line, Clare Street.....	48 56
Sayles	West side, 4 feet south of south line, Princeton St....	48 06
Sayles.....	South east intersection of Princeton Street	47 84
Stackpole.....	South side, 160 feet west of west line, Alder Street....	46 20
Stackpole.....	South side, 186.5 east of east line, Livermore Street.....	46 20
Stackpole.....	North side, 160 feet west of west line, Alder Street....	46 20
Stackpole.....	North side 373 feet west of west line, Alder Street....	46 20
Stedman (rebuilt).	West side, 4 feet north of south line No. 173 Sted- man Street.....	20 42
Stedman (rebuilt).	East side, 4 feet north of south line, No. 173 Sted- man Street.....	20 42
Thorndike(r'built)	East side, 75 feet north of north line, Middlesex St...	43 77

STREET CATCH BASINS BUILT DURING THE
YEAR 1905—Continued.

STREETS.	LOCATION.	COST.
Walker.....	West side, 12 feet south of south line, Broadway.....	\$65 78
Westford.....	South east intersection of Westford St. and Florence Avenue	53 97
Westford.....	North side, 4 feet east of east line, Dartmouth St....	53 98
Westford.....	South side, 41 feet west of west line, Dartmouth St...	53 98
Westford.....	North side, 41 feet west of west line, Dartmouth St....	53 97
Westford.....	South east intersection of Tyler Park, east.....	53 98
Westford.....	South west intersection of Tyler Park, east.....	53 97
Westford.....	South side, 13.5 feet east of east line, Tyler Park, west.....	53 98
Westford.....	South side, 10 feet west of west line, Tyler Park, west.....	53 97
Westford (rebuilt)	North side, 11 feet west of east line, Tyler Park, west.....	43 16

STREET CATCH BASINS BUILT DURING THE
YEAR 1905—Continued.

STREETS.	LOCATION.	COST.
West Forest	North east intersection of West Forest and Clifford Streets	\$ 52 50
Wood	East side, 37 feet south of north line, Dr. Porter's House	54 33
		\$3,051 23

PERMITS GRANTED IN 1905.

Sewer Permits	227
Inspections Made	224
Street Obstruction Permits	195
Opening Streets	20
Building Permits	69

REMOVING SNOW.

MONTHS.	LABOR.	TEAMING.	TOTAL COST.
January.....	\$ 8,942 69	\$ 815 25	\$ 9,757 94
February.....	12,955 95	1,356 75	14,312 70
March.....	6,789 94	1,001 56	7,791 50
December.....	1,370 68	121 25	1,491 93
	\$30,059 26	\$3,294 81	\$33,354 07

RECAPITULATION.

CLEANING STREETS.

MONTHS.	SCRAPING.	SWEEPING.	SPARROW GANG.
January.....			\$1,493 52
February.....			1,563 26
March.....	\$ 408 08	\$ 39 95	1,518 74
April.....	1,684 67	780 50	1,771 68
May.....	1,646 33	917 48	1,630 35
June.....	1,469 30	958 71	1,398 36
July.....	1,822 20	1,052 07	2,030 03
August.....	1,687 37	1,130 85	1,530 93
September.....	2,041 70	1,158 35	1,914 58
October.....	1,504 23	1,078 93	1,674 62
November.....	1,977 35	908 74	1,683 83
December.....	73 00		1,815 17
	\$14,314 23	\$8,025 58	\$20,025 07

HIGHWAYS AND STREETS.

TABLE SHOWING AMOUNTS EXPENDED ON PRINCIPAL WORK SINCE 1900.

DESCRIPTION.	1900.	1901.	1902.	1903.	1904.	1905.
Macadam.....	\$ 21,513 05	\$ 18,373 05	\$ 23,672 24	\$ 30,434 78	\$ 22,952 66	\$35,031 65
Streets Graded.....	14,556 96	9,078 75	12,353 13	10,965 06	15,619 92	15,983 92
Curbing, New.....	4,203 13	8,088 01	8,335 25	7,327 83	7,397 69	2,850 06
Curbing, Relaid.....	684 94	645 17	2,412 73	2,482 92	1,116 32	1,092 76
Gutters, New.....	1,795 91	927 78	2,627 33	1,593 78	1,736 87	1,568 64
Gutters, Relaid.....	210 12	187 11	207 61	12 50	509 85	113 09
Cinder Sidewalks.....	2,936 33	3,015 86	5,396 11	8,613 30	2,979 66	2,551 05
Paving, New.....	6,948 67	4,474 39	426 00	273 26	921 12	198 70
Paving, Relaid.....	753 18	1,510 23	2,062 28	2,752 34	3,006 47	3,705 54
Crosswalks, New.....	1,053 39	445 80	2,051 26	2,060 26	1,203 89	1,289 96
Crosswalks, Relaid.....	353 08	405 26	744 11	770 29	364 44	53 49
Crosswalks.....	286 10	208 91	117 37	216 36	314 12	74 96
Cleaning Streets.....	2,164 75	28,473 75	31,379 73	38,256 59	38,856 31	40,181 75
Removing Snow.....	4,890 22	8,436 77	17,836 03	9,186 63	44,878 86	33,354 07
Trimming Trees.....	1,273 28	646 55	558 20	108 55	*	
Repairing Streets.....	2,829 46	1,827 97	1,026 01	993 07	2,875 92	3,673 06
Total Expenditures.....	154,173 79	134,239 89	161,484 21	167,628 79	216,482 71	192,568 36
Valuation of Personal Property.....	61,943 53	48,801 07	63,309 17	78,250 91	75, 632 09	71,256 75
Relaying Brick Sidewalks.....	151 33	273 11	643 30	1,510 99	670 68	1,280 13
Repairing Bridges.....	5,736 13	9,109 85	2,077 42	5,498 50	12,901 46	15,209 64
New Walls.....	1,196 85	253 97	186 00	540 89	1,757 72	407 76

*Care of trees transferred to Park Department.

HIGHWAYS AND STREETS.

TABLE SHOWING AMOUNT OF WORK DONE FOR YEARS 1900-1-2-3-4-05.

DESCRIPTION.	1900.	1901.	1902.	1903.	1904.	1905.
Macadam, square yards.....	69,220	36,476	55,905	50,275	54,537	58,977
Streets Graded, lineal feet.....	43,712	53,400	47,965	23,347	36,315	44,967
Curbing, New, lineal feet.....	9,767	11,052	13,151	12,980	12,128	5,285
Curbing, Relaid, lineal feet.....	6,987	6,965	16,696	17,735	8,266	8,980
Gutters, New, lineal feet.....	13,520	10,682	24,791	15,810	13,638	11,511
Gutters, Relaid, lineal feet.....	1,465	3,273	1,395	228	5,106	1,738
Cinder Sidewalks, lineal feet.....	51,478	45,346	92,262	101,480	42,190	33,527
Paving, square yards.....	12,867	1,843	416	555	444	63
Paving, Relaid, square yards.....	3,905	5,500	6,827	6,600	8,423	10,992
Crosswalks, lineal feet.....	509	540	2,215	2,199	1,328	1,207
Crosswalks Relaid, lineal feet.....	702	2,098	2,193	2,583	1,451	246
Streets Accepted, miles.....	.78	.38	1.04	1.43	.62	1.89
Relaying Brick Sidewalks, sq. yards	481	573	3,216	3,820	2,729	2,479
New Walls, lineal feet.....	1,580	210	412	282	936	291
New Catch Basins.....	274	96	102	27	53	56

BRIDGES.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY.
Aiken.....	Merrimack River	Iron	City
Aiken.....	Northern Canal	Iron	City
Bridge.....	Merrimack River	Iron	City
Bridge.....	Eastern Canal	Wood	Props. Locks & Canals
Broadway.....	Pawtucket Canal	Wood	Props. Locks & Canals
Broadway.....	Western Canal	Stone	City
Cabot.....	Northern Canal	Wood	City
Cambridge.....	River Meadow Brook	Wood	City
Central.....	Pawtucket Canal	Wood	Props. Locks & Canals
Chelmsford.....	B. & M. R. R.	Iron	Boston & Maine R. R.
Church.....	Concord River	Stone	City
Congress.....	River Meadow Brook	Wood	City
Dutton.....	Western Canal	Wood	City
East Merrimack.....	Eastern Canal	Wood	Props. Locks & Canals

BRIDGES—Continued.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY.
East Merrimack	Concord River	Iron and Stone	City
Gorham.....	River Meadow Brook	Wood	City
Hale.....	B. & M. R. R.	Iron	Boston & Maine R. R.
Hall.....	Western Canal	Wood	Lawrence Mfg. Co. and Suffolk Mills
Howard.....	River Meadow Brook	Stone	City
Jefferson.....	Western Canal	Iron	City
Lawrence.....	Concord River	Wood	City
Lawrence.....	Wamesit Canal	Wood	Wamesit Power Company
Lincoln.....	River Meadow Brook	Wood	City
Lundberg.....	B. & M. R. R.	Iron	City
Market.....	Merrimack Canal	Wood	City
Market.....	Western Canal	Wood	City
Merrimack.....	Merrimack Canal	Stone and Brick	Props. Locks & Canals
Merrimack.....	Western Canal	Wood	Props. Locks & Canals

BRIDGES—Continued.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY.
Moody	Western Canal	Wood	City
Moody	Merrimack River	Iron	City
Newhall	River Meadow Brook	Iron	City
Pawtucket	Northern Canal	Wood	Props. Locks & Canals
Pawtucket	Pawtucket Canal	Wood	Props. Locks & Canals
Plain	River Meadow Brook	Wood	City
Rogers	Concord River	Stone	City
School	Merrimack River	Iron	City
School	Northern Canal	Brick and Stone	Props. Locks & Canals
School	Pawtucket Canal	Wood	Props. Locks & Canals
Suffolk	Northern Canal	Wood	Props. Locks & Canals
Thorndike	Pawtucket Canal	Wood	Props. Locks & Canals
Wilder	B. & M. R. R.	Wood and Iron	B. & M. R. R. and City
Worthen	Western Canal	Wood	City

SEWER MAINTENANCE.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
A.....	13	\$12 43
Auburn.....	3	5 71
Abbott.....	10	10 00
Appleton.....	31	29 30
Andrews.....	28	28 95
Agawam.....	19	19 37
Andover.....	52	54 39
Albion.....	9	10 00
Aiken.....	42	42 71
Aiken Avenue.....	20	23 50
Arch.....	11	12 23
Avon.....	1	90
Anne.....	3	3 10
Adams.....	20	20 61
Arlington.....	1	1 00
B.....	16	15 94
Butler Avenue.....	17	17 50

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Border.....	6	\$ 5 28
Burns	6	6 00
Blossom	16	16 00
Barrington.....	2	3 50
Brewers Court.....	2	2 25
Bassett.....	4	4 00
Beech.....	23	23 50
Bartlett.....	8	7 75
Bridge.....	48	49 43
Beacon.....	15	15 00
By.....	7	7 00
Boynnton	2	2 00
Billings.....	5	5 00
Boylston.....	4	4 00
Barclay.....	8	8 00
Batchelder Place.....	6	6 98
Broadway.....	58	58 36
Bellevue	7	7 87

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Belmont	6	6 45
Blodgett	4	3 94
Burt	7	7 31
Bowers	2	1 76
Butterfield	8	7 98
Brookside	2	2 27
Branch	24	24 37
C	10	11 65
Cady	4	4 75
Cedar	11	11 45
Congress	7	8 00
Chase	5	5 00
Chapel	29	29 35
Carlisle	4	3 75
Cosgrove	9	7 50
Chambers	17	17 12
Central	78	83 26
Crosby	29	29 71

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Charles.....	17	\$17 72
Church.....	15	15 95
Carter.....	2	2 00
Cambridge.....	2	2 00
Concord	44	45 19
Cumberland Road.....	8	10 00
Chestnut.....	10	10 00
Clitheroe.....	4	3 50
Coburn	15	20 00
Cambridge.....	14	16 45
Chester.....	3	3 00
Coral... ..	11	10 21
Corner.....	3	2 63
Carlton... ..	7	7 32
Columbus Avenue.....	4	4 36
Canton.....	8	8 87
Chelmsford.....	58	65 52
Cheever.....	1	1 00

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Common.....	14	\$14 69
Claire.....	11	13 31
Colonial Avenue.....	10	10 10
Cross.....	24	24 12
City Avenue.....	12	13 78
Clark.....	4	4 07
Cabot.....	17	17 50
Cushing.....	8	8 10
Crawford.....	2	2 00
Coolidge.....	2	2 10
Davidson.....	21	24 38
Durant.....	14	15 50
Davenport.....	1	1 12
D.....	9	9 31
Daly.....	2	2 00
Dover.....	11	10 93
Decatur Avenue.....	4	4 10
Dutton.....	20	22 79

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Dane.....	3	\$ 4 94
Dummer.....	10	10 60
Elliot... ..	4	4 00
Elm	4	4 15
Ellsworth.....	4	4 00
Eighteenth.....	4	4 00
East Merrimack.....	34	33 96
Exeter.....	7	8 00
Ennell.....	7	6 97
Eleventh.....	8	9 75
East Pine.....	7	8 26
Everett.....	10	12 25
Eighth.....	9	9 00
Essex.....	11	13 87
Everett.....	2	2 00
Emery.....	1	98
Edson	3	3 46
Eighth Avenue.....	2	2 00

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Ellis Court..	3	\$ 3 15
Fay.....	2	2 00
Floyd.....	4	4 00
First.....	19	17 58
Fort Hill Avenue.....	12	12 39
Fifth.....	11	9 50
Fairview.....	2	1 98
Fairmount.....	10	10 87
Fremont.....	9	10 24
Fulton.....	8	8 00
Fayette.....	32	32 50
Fourth.....	6	6 01
Fernald.....	4	4 00
Foster.....	13	13 20
Forrest.....	2	1 97
Fletcher.....	23	23 09
Fifth Avenue.....	15	14 48
Fourth Avenue.....	13	18 38

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Fenwick	4	\$ 4 29
Franklin	5	5 60
Ford... ..	20	20 08
French.....	2	1 97
George.....	5	4 98
Gorham.....	142	140 90
Garnet.....	4	4 00
Gates.....	13	13 00
Grace.....	3	2 95
Gibson.....	5	5 62
Grand	26	26 49
Grove.....	11	11 38
Gershom Avenue	9	8 51
Hale.....	27	27 00
Howard.....	44	47 38
Hudson.....	10	11 21
Highland.....	7	7 00
Hurd	5	5 00

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Huntington	5	\$ 4 94
Hanks	7	6 88
Harrison	3	2 96
Hampshire	23	25 00
Howe	4	4 50
High	50	51 60
Humphrey	15	15 00
Hovey	10	10 25
Hildreth	3	3 00
Harvard	2	1 96
Harding	2	1 75
Hutchinson	4	3 97
Hastings	16	19 02
Highland Avenue	2	2 25
Horn	4	4 50
Hall	10	9 98
Hanover	3	3 24
Hancock Avenue	5	5 00

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Jackson.....	28	\$31 00
Jewett.....	21	21 00
June.....	2	2 00
Jenness.....	6	5 93
John Street Avenue.....	1	1 10
John.....	6	7 25
Jefferson.....	4	4 10
Keene.....	4	5 50
Kinsman.....	16	16 25
Kirk.....	7	6 98
Kitson.....	4	5 91
Lyons.....	11	12 25
Lawrence.....	64	66 04
Lincoln.....	43	41 00
Linden.....	14	14 00
London.....	14	13 75
Livingston.....	9	7 87
Lundberg.....	4	3 50

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Laurel.....	12	\$12 50
Lilley Avenue.....	11	13 00
Ludlam.....	18	19 00
Lakeview Avenue.....	27	32 37
Livermore.....	2	1 75
Leverett.....	2	2 00
Loring.....	14	14 24
Livingston Avenue.....	5	5 24
Lane.....	7	7 03
Liberty.....	43	41 98
Lewis.....	2	2 25
Lamb.....	2	2 25
Lagrange.....	11	11 07
Lee.....	6	6 60
Meadowcroft.....	12	12 00
Merrill.....	6	5 52
Moore.....	26	27 92
Main.....	7	7 10

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Middlesex.....	154	\$156 55
Mead.....	1	75
Madison.....	3	3 00
Maple.....	2	2 00
Mill.....	6	6 00
Methuen.. ..	19	20 50
Mansur.....	7	6 94
Myrtle.....	21	21 97
Marginal.....	2	1 75
Marlborough.....	3	3 09
Marshall.....	16	17 02
Midland.....	6	5 96
Middle.....	11	11 25
Mt. Washington.	8	8 13
Mt. Vernon.....	22	22 41
Mt. Hope.....	4	3 74
Mt. Grove.....	14	13 75
Merrimack.....	53	54 90

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Market	29	\$30 01
Moody	51	52 59
Mammoth Road	31	34 19
Marion.....	7	6 97
North.....	6	6 50
Newhall.....	7	7 50
Ninth.....	2	2 00
Nineteenth.....	2	2 00
Nesmith	25	25 13
Nichols	18	18 39
Noble's Court.....	2	3 00
Oak.....	8	8 40
Otis	20	20 47
Prospect.. ..	2	2 00
Pine Hill.....	2	2 00
Pollard . . .	5	5 00
Pearl.....	5	5 00
Perry.....	29	30 28

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Porter.....	2	\$ 1 98
Pond.....	17	18 85
Pleasant.....	17	18 98
Parkview Avenue.....	7	6 96
Pawtucket.....	18	18 44
Pine.....	42	48 41
Puffer.....	3	3 10
Princeton.....	18	21 45
Powell.....	14	14 05
Plain.....	7	7 07
Parker.....	3	3 00
Palmer.....	3	3 00
Paige.....	8	7 98
Pollard Avenue.....	6	6 40
Prescott.....	18	19 02
Phillips.....	4	4 06
Queen.....	7	6 97
Rogers.....	43	42 28

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Read.....	14	\$15 47
Royal.....	12	9 51
Railroad	6	6 06
Robbins.. ..	3	3 10
Roberts.....	5	5 38
Riverside	17	17 24
Rock.....	17	17 65
Race.....	3	3 00
South... ..	40	40 54
Swift	5	4 75
Spring.....	2	1 50
South Whipple	12	10 75
Summer	23	20 55
South Highland.....	2	2 00
Sidney	4	4 00
School	89	93 19
Simpson	7	6 75
Stanley	9	9 50

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Second.....	3	\$ 4 38
Sherman.....	10	9 87
Stackpole	18	18 75
Sanborn.....	7	7 00
Seventh.....	12	12 00
Sixth	39	43 11
Sutherland.....	2	2 00
Sheldon.....	2	2 00
Sanders Avenue	2	2 25
Shaw	22	22 49
Stevens	38	37 60
Somerset.....	1	1 59
Smith.....	18	19 86
South Canton.....	2	1 97
South Walker	13	12 00
Schaffer.....	8	7 77
South Loring.....	13	13 13
Seventh Avenue.....	2	2 15

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Sixth Avenue.....	4	\$ 4 50
Suffolk.....	24	24 12
Salem.....	20	20 00
Second Avenue.....	2	1 75
Starbird	3	3 36
Tanner.....	6	6 30
Tyler.....	4	3 98
Thorndike.....	93	103 93
Twelfth.....	13	17 06
Tenth	28	31 47
Third.....	39	43 19
Thirteenth.....	3	3 50
Thayer.....	1	1 00
Third Avenue.....	5	5 29
Tucker.....	9	8 94
Tilden.....	4	4 10
Tremont.....	3	3 51
Varnum Avenue.....	4	5 23

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Varney.....	3	\$ 2 97
Varnum.....	5	5 50
Union.....	22	23 50
Warren Court.....	2	2 00
Whipple.....	18	18 86
Wamesit.....	18	18 30
Watson.....	4	3 50
Winter.....	8	7 28
William.....	8	8 38
Walnut ..	6	5 50
Warren.....	6	6 28
Whitney Avenue.....	2	2 00
West Third.....	5	5 00
West Fourth.....	16	16 00
West Fifth.....	6	6 00
West Sixth.....	12	14 84
West Ninth.....	2	2 00
West Eleventh	2	2 00

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Wentworth Avenue.....	4	\$ 4 00
Wyman.....	10	9 91
Waverly Avenue.....	2	1 97
Wachusett.....	6	6 50
Washington.....	4	3 97
Warwick.....	18	16 97
Walker.....	36	36 92
Windsor.....	4	4 43
Winthrop Avenue.....	1	1 01
Ware.....	5	6 00
West Adams.....	4	3 51
Westford.....	111	99 78
Wilder.....	51	55 56
Wannalancit.....	8	7 10
Willie Avenue.....	5	5 25
White.....	17	17 70
Woodward Avenue.....	4	4 21
Willie.....	6	5 97

SEWER MAINTENANCE—Continued.

NUMBER OF LOADS REMOVED FROM STREET CATCH BASINS AND COST.

STREETS.	NO. LOADS.	COST.
Worthen.....	14	\$ 15 40
Ward.....	6	6 25
Western Avenue.....	3	3 00
	4518	\$4,701 76

SEWER MAINTENANCE.

FLUSHING SEWERS.

STREETS.	COST.
Aiken	\$ 6 83
Anderson.....	1 50
Barclay... ..	1 00
Broadway	2 05
Boynton.....	2 00
Bassett.....	1 00
Bourne	2 25
Cross	1 18
Cheever	1 75
Chelmsford.....	5 00
Clark	6 05
Cushing.....	8 95
Batchelder Court.....	6 38
Dutton	4 00
Durant.....	1 50
Dane	2 00
Decatur Avenue	30 01
Ennell.....	1 50

SEWER MAINTENANCE.

FLUSHING SEWERS—Continued.

STREETS.	COST.
French.....	\$ 4 96
Gershom Avenue	7 55
Gorham	3 87
Howard	5 50
Hudson	1 00
Jefferson	2 15
John Street Avenue.....	2 13
Lee.....	2 38
Linden.....	4 87
Lawrence	1 10
Moody... ..	2 15
Market.....	3 75
Merrimack.....	3 85
Marion.... .	3 27
Marginal.....	9 56
Middlesex	50 36
Moody	2 25
Loring.....	3 50

SEWER MAINTENANCE.

FLUSHING SEWERS—Continued.

STREETS.	COST.
Noble's Court.....	\$ 2 95
Otis.....	1 50
Pollard Avenue.....	3 50
Rock.....	5 33
Stackpole.....	1 25
Second.....	1 25
Short... ..	3 30
Swan Avenue.....	3 50
Railroad.....	6 38
South Whipple.....	7 00
Tucker.....	2 38
West Eleventh.....	3 00
Ward	7 89
Worthen.....	1 25
Westford.....	7 00
West Fourth.....	7 41
Willie Avenue.....	1 97
	\$266 21

SEWER MAINTENANCE.

REPAIRING SEWERS.

STREETS.	STOCK.	LABOR.	TOTAL COST.
Decatur Avenue.....		\$ 20 24	\$ 20 24
Davidson.....		4 49	4 49
Linden.....	\$ 6 39	44 98	51 37
New York		5 00	5 00
Perry.....		65 99	65 99
Pond		2 00	2 00
Pollard Avenue.....	1 05	7 87	8 92
South Whipple		13 31	13 31
Salem.....		47 83	47 83
West Eleventh	15 17	36 49	51 66
	\$22 61	\$248 20	\$270 81

SEWER MAINTENANCE.

REPAIRING CONNECTIONS.

STREETS.	COST.
Aiken.....	\$ 6 00
Andrews.....	4 00
Broadway.....	7 00
Cambridge.....	7 87
Concord.....	7 87
East Merrimack..	7 00
Fayette.....	14 00
Gorham.....	3 50
Lawrence.....	13 91
Lilley Ave.....	3 00
Lakeview Ave.....	1 87
Middlesex.....	3 00
Pawtucket.....	4 00
Princeton.....	1 51
Stackpole.....	1 00
Swift.....	7 87
School.....	13 63
Smith.....	7 87

SEWER MAINTENANCE.

REPAIRING CONNECTIONS—Continued.

STREETS.	COST.
South Canton	\$ 3 51
West Adams	37 30
West Sixth	4 00
Wachusett	4 87
	\$164 58

SEWER MAINTENANCE.

REPAIRING MANHOLES.

STREETS.	LABOR.	STOCK.	TOTAL COST.
Andover	\$ 7 00		\$ 7 00
Aiken Avenue.....	4 00	\$ 64	4 64
B.....	4 00	1 25	5 25
Blossom	14 00	3 35	17 35
Church	12 03	2 05	14 08
Common	5 94	3 24	9 18
C.....	4 74		4 74
Cheever	2 75		2 75
Congress	5 00	3 96	8 96
Cedar	6 75	2 50	9 25
Durant	3 51	14 00	17 51
Decatur Avenue.....	19 27	14 65	33 92
Ennell.....	5 87		5 87
Elm	3 00		3 00
Foster.....	1 00	13 50	14 50
Genoa Avenue.....	7 87	1 54	9 41
Gershom Avenue....	3 75		3 75

SEWER MAINTENANCE.

REPAIRING MANHOLES—Continued.

STREETS.	LABOR.	STOCK.	TOTAL COST.
Grove	\$ 3 87	\$1 00	\$ 4 87
Hildreth	2 00		2 00
Intercepting Sewer..	3 51	1 07	4 58
Ludlam	1 00	1 79	2 79
Liberty	2 40	60	3 00
Jackson	4 88	1 54	6 42
Midland	6 34	1 99	8 33
Main	3 00	1 50	4 50
New	3 50	1 10	4 60
Plain	3 00		3 00
Powell	11 97	3 04	15 01
Plain	8 87	3 80	12 67
Short	4 51		4 51
Stackpole	7 87	4 58	12 45
Sutherland	2 00		2 00
Tenth	5 00		5 00
Thorndike	14 00	15 22	29 22

SEWER MAINTENANCE.

REPAIRING MANHOLES—Continued.

STREETS.	LABOR.	STOCK.	TOTAL COST
Walker	\$ 4 10	\$ 15 89	\$ 19 99
Willow	3 00		3 00
Warren Court.....	1 87	13 50	15 37
Woodward Avenue..	6 50		6 50
	\$213 67	\$127 30	\$340 97

SEWER MAINTENANCE.

REPAIRING CATCH BASINS.

STREETS.	LABOR.	STOCK.	TOTAL COST.
Andover	\$ 5 00		\$ 5 00
Crosby.....	5 88	\$ 65	6 53
Central.....	13 66	1 34	15 00
Colburn.....	2 10		2 10
Cedar.....	1 87	37	2 24
Decatur Avenue....	2 50		2 50
Dummer.....	4 19	2 68	6 87
Dutton.....	1 50		1 50
Durant.....	25 93	5 78	31 71
Ennell.....	3 00		3 00
First	7 69	17 27	24 96
Fletcher.....	30 99	27 08	58 07
Gorham.....	2 87	50	3 37
Hanks.....	5 00	79	5 79
John Street Avenue..	18 07	17 64	35 71
Lane.....	11 04	5 84	16 88
Middlesex.....	13 30	20 11	33 41
Lawrence.....	14 15	75	14 90

SEWER MAINTENANCE.

REPAIRING CATCH BASINS—Continued.

STREETS.	LABOR.	STOCK.	TOTAL COST.
Harrison.....	\$ 4 00		\$ 4 00
Moody.....	3 50	\$ 14 14	17 64
Middle.....	2 59	13 50	16 09
Market.....	3 10		3 10
Noble's Court.....	1 50		1 50
Pawtucket.....	3 50		3 50
Paige... ..	4 00	14 04	18 04
Race.....	2 50		2 50
Salem... ..	9 05	85	9 90
Summer.....	8 43	4 69	13 12
Stevens.	4 07		4 07
Second.....	3 50		3 50
School.....	1 50		1 50
Walker.....	5 00	14 50	19 50
West Fourth.....	25 88	29 58	55 46
Williams.....	1 50	40	1 90
Westford.....	15 35	5 10	20 45
	\$267 71	\$197 60	\$465 31

SEWER MAINTENANCE.

MISCELLANEOUS WORK.

STREETS.	DESCRIPTION.	COST.
Andover.....	Repairs	\$ 7 81
Bridge.....	Culvert	5 00
Brooks	Cave In	7 00
Bowers.....	Cave In	1 75
Church... ..	Repairing Track Basin	2 50
Claire	Cave In	1 75
Fletcher.....	Cave In	1 50
Fulton.....	Cave In	1 50
Gorham	Repairing Track Basin	6 50
Hoyt Ave.	Setting Curbstone	2 00
Lawrence.....	Repaving	2 25
Mansur.....	Culvert	2 61
Moody.....	Cave In	4 78
Mt. Hope.....	Cave In	3 50
Pollard Ave.....	Cave In	2 81
Rogers.....	Repairing Track Basin	14 00
Rogers.....	Culvert	20 06

SEWER MAINTENANCE.

MISCELLANEOUS WORK—Continued.

STREETS.	DESCRIPTION.	COST.
Stronquist Ave....	Timbering Sewer	\$ 6 50
Stronquist Ave....	Cave In	7 88
Sanders Ave	Cave In	7 87
Salem	Laying Paving	3 97
Varnum Ave.....	Culvert	37 58
White	Repairing Overflow	5 00
		\$156 12

SEWER MAINTENANCE.

RECAPITULATION.

DESCRIPTION.	COST.
Cleaning Basins	\$4,701 76
Sanding Walks	212 50
Cleaning Track Basins	52 01
Opening Basins.....	1,137 13
Removing Snow	119 09
Inspecting Basins.....	104 74
Cleaning Sewers.....	387 81
Uncovering Basins.....	132 78
Flushing Sewers.....	266 21
Repairing Sewers.....	248 20
Repairing Basins.....	267 71
Repairing Manholes.....	213 67
Repairing Connections....	164 58
Building Manholes.....	116 27
Building Catch Basins	850 28
Miscellaneous.....	156 12
Carpenter	959 25

SEWER MAINTENANCE.

RECAPITULATION—Continued.

DESCRIPTION.	COST.
Blacksmith	\$ 275 00
Yard Labor	1,481 51
Watchmen Strongquist Avenue Sewer	500 00
	\$12,346 62

TABLE SHOWING THE SEWERS BUILT DURING THE YEAR 1905, LENGTH, SIZE, MATERIAL, WHEN BEGUN, FINISHED, AND COST.

STREETS.	SIZE AND LENGTH.					MATERIALS.	Cubic Yards Ledge.	Average Depth	Manholes.	Begun.	Finished.	Cost.	Total Length.
	10-in.	12-in.	15-in.	18-in.	24-in.								
Burns	123.0					Portland Pipe		8.5	1	Oct. 30	Nov. 2	\$ 262 15	123
Bowden.....			402			Portland Pipe	17	13.0	2	June 22	Aug. 2	1,575 15	402
Bowden Street and Nelson Ave., 37-in. by 25-in...						Brick	302	19.0	2	May 4	Aug. 8	12,334 23	392
Cosgrove, 187 feet relaid.....		625				Portland Pipe		9.0	2	April 28	May 15	1,236 31	625
Chippewa		460				Portland Pipe		11.0	2	Aug. 2	Aug. 17	1,190 14	460
Dracut.....	313.4					Portland Pipe	81	7.0	1	Sept. 18	Oct. 10	1,603 08	313.4
Ennell and Hildreth.....		206				Portland Pipe		9.5	3	Sept. 17	Oct. 4	1,394 21	206
Ennell.....		454				Portland Pipe	99	9.5	1	Aug. 21	Sept. 16	2,189 14	454
Elmwood Avenue.....	302.0					Portland Pipe		8.0	2	April 26	May 3	413 92	302
Fletcher and Brooks.....		294				Portland Pipe	80	10.5	4	Oct. 31	Nov. 28	2,174 47	294
Fulton.....	257.0					Portland Pipe		8.0	2	Oct. 26	Oct. 31	498 75	257
High		219				Portland Pipe		11.0	1	Oct. 11	Oct. 11	663 19	219
Hoyt Avenue.....		1020				Portland Pipe		9.0	4	May 18	June 9	2,206 60	1020
Mt. Hope, from Fourth Avenue East.....	221.5					Portland Pipe		11.0	2	Nov. 15	Dec. 16	908 64	221.5
Mt. Hope, from Third Avenue East	149.7					Portland Pipe		8.0	1	Oct. 3	Nov. 23	697 54	149.7
Mt. Hope, from Fifth Avenue East.....	261.0					Portland Pipe	50	9.0	1	Aug. 23	Sept. 14	1,595 36	261
Middlesex.....			721			Portland Pipe		7.5	3	Oct. 16	Oct. 25	1,323 02	721
New York, 12 ft. 12 in. iron.....		329				Portland Pipe		6.0	2	Oct. 11	Oct. 14	498 58	341
Olney.....	259.0					Portland Pipe		9.0	3	May 29	June 14	807 02	259
Parker			903			Portland Pipe		14.5	6	Oct. 16	Dec. 13	6,120 65	903
Pine	60.0					Portland Pipe	40	10.0	1	June 15	July 3	607 77	60
Rhodora, (Unfinished)		100				Portland Pipe		14.0	1	Dec. 13	Unfinished	1,029 60	100
Riverside and Varnum Avenue.....		775				Portland Pipe	359	11.5	4	May 15	Aug. 1	7,021 22	775
Rogers.....	547		642			Portland Pipe		11.7	6	Oct. 9	Dec. 12	6,282 19	1189
Starbird.....		480				Portland Pipe		9.5	3	April 26	May 4	898 74	480
Stronquist Avenue, finished 377 feet 36-in. brick ..						Brick	147	21.0	2	Sept. 8, '04	June 7, '05	11,453 54	377
Varnum Avenue		100				Portland Pipe	92	13.5	1	Aug. 12	Aug 12	1,338 03	100
Weed.		100				Portland Pipe		10.5		May 5	May 11	338 75	100
Willie.....		438				Portland Pipe	61	11.5	2	July 25	Aug. 19	2,247 20	438
Wentworth Avenue (Unfinished)		989				Portland Pipe		13.0	5	Oct. 16	Unfinished	10,301 61	989
SURFACE DRAINS													12531.6
Birch		238				Portland Pipe		6.5	1	Aug. 25			
Laurel, 25-ft. 8-in.		218.5				Portland Pipe		5.0	1				
Rogers	OAKLANDS SYSTEM		837		64	Portland Pipe		9.0	4				
Sycamore		247				Portland Pipe		6.0	1				
Wentworth Avenue			1211			Portland Pipe		8.6	6		Oct. 15	9,494 05	2841
Holden	TYLER PARK SYSTEM		539			Portland Pipe	6	6.0	2	June 19			
Princeton, 238-ft. 8 in.		315				Portland Pipe	17	6.0	2				
Westford		340	774			Portland Pipe	157	6.0	4		Aug. 17	6,155 20	2206
												\$96,861 05	17578.6

Lineal feet of Sewers laid in 1905.....12,531.6 feet or 2.37 miles
Sewers laid previously 93.29 "

Deduct 187 lineal feet of Sewers relaid 03 "

Length of Sewers January 1st, 1906..... 95.63 "

Stronquist Avenue Sewer completed 1905. Total length, 1789 feet. Total cost, \$38,060 32

Lineal feet surface drains laid in 1905. Total length, 5047 feet. Total cost, \$15,650 25.



ASPHALT PAVEMENT.

NAME OF STREET.	LOCATION.	YEAR LAID.	COST PER YARD.	LAID BY.	SQ. YARDS.	COST.	TERM OF GUARANTEE.	GUARANTEE EXPIRES.	REPAIRS.					
									1900	1902	1903	1904	1905	TOTAL COST.
Aiken.. .. .	Cheever St. to Hall St. and Hall St. to Aiken St. Bridge.....	1898	\$1 97	Dunn Brothers	5,248.94	\$ 10,340 41	5 years	(b) 1903	\$299 60	\$589 45	\$261 00	\$461 89	\$141 05	\$1,752 99
Hall.....	Aiken St. to Aiken St.....	1898	1 97	Dunn Brothers	469.90	925 70	5 years	(b) 1903				310 43	89 95	400 38
Market.....	Central St. to Palmer St.	1900	2 80	Merrimack Paving Co.	3,379.04	9,462 24	5 years	1905						
Broadway.....	Suffolk St. to Walker St.....	1901-2	2 73	Merrimack Paving Co.	14,719.27	40,183 61	5 years	1906					(a) 60 72	60 72
Suffolk.....	Merrimack St. to Broadway.....	1901	2 73	Merrimack Paving Co.	3,210.06	8,763 46	5 years	1906						
Aiken.....	Lakeview Ave. to Aiken St. Bridge	1902	2 95	Merrimack Paving Co.	2,435.66	7,185 20	10 years	1912						
Charles.....	Central St. to Lawrence St.....	1902	2 96	Union Paving Co.	2,714.54	8,035 04	10 years	1912						
Kirk.....	Merrimack St. to Paige St.....	1902	2 95	Merrimack Paving Co.	1,883.52	5,556 38	10 years	1912						
Paige.. .. .	Kirk St. to John St.....	1902	2 95	Merrimack Paving Co.	1,616.86	4,769 74	10 years	1912						
Westford.....	Loring St. to Wilder St.....	1902	2 97	Union Paving Co.	3 310.32	9,831 65	10 years	1912						
					38,988.47	\$105,053 43			\$299 60	\$589 45	\$261 00	\$772 32	\$291 72	\$2,214 09

(a) Repairs caused by damage done by city. (b) Paving Company defunct.

ASPHALTINA PAVEMENT.

Charles.....	Central St. to Gorham St.....	1897	\$2 65	Boston Paving Co.	1,633.76	\$ 4,329 46	5 years	1902						
Gorham.....	Lowell & A. R. R. to Cosgrove St.	1898	2 50	Boston Paving Co.	7,710.32	19,275 79	5 years	1903						
Mammoth Road..	Fourth Ave. to Eighth Ave.....	1899	2 50	Boston Paving Co.	5,787.82	14,469 55	5 years	1904				\$345 65	\$ 20 65	\$ 366 30
Suffolk.....	Adams St. to Broadway.....	1899	2 50	Boston Paving Co.	2,848 13	7,120 33	5 years	1904						
Westford.....	Chelmsford St. to Smith St	1899	2 50	Boston Paving Co.	4,503.46	11,258 66	5 years	1904						
Westford.....	Smith St. to Loring St.....	1899	2 50	Boston Paving Co.	6,989.	17,472 50	5 years	1904						
					29,472.49	\$73,926 29						\$345 65	\$ 20 65	\$ 366 30

BITULITHIC PAVEMENT.

Merrimack.....	Cabot St. to Pawtucket St... ..	1902-3	\$1 83	Warren Brothers Co.	3,366.99	\$ 6,161 59	5 years	1907						
Pleasant.	Andover St. to Rogers St	1902	2 13	Warren Brothers Co.	6,336.51	13,496 77	5 years	1907						
Central	Elm St. to Gorham St	1903	2 25	Warren Brothers Co.	10,009.42	22,521 19	5 years	1908						
					19,712.92	\$42,179 55								

ANNUAL REPORT
OF THE
CHIEF ENGINEER
OF THE
FIRE DEPARTMENT
OF THE
CITY OF LOWELL
FOR THE YEAR 1905.



LOWELL, MASS.
F. A. M. TOBIN'S PRINTERY
1906



REPORT

CHIEF'S OFFICE,

PALMER ST. ENGINE HOUSE,

LOWELL,

January 1, 1906.

To the City Council of the City of Lowell :

GENTLEMEN:—In accordance with the requirements governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of the City of Lowell for the year ending December 31, 1905.

The report will be found to contain statements in detail embracing the amount of expenditures, a register of the department, with age, residence and occupation of each member, a record of all fires and alarms which have occurred during the year, and the cause thereof, with the names of the owners or occupants, the loss and insurance, as nearly as could be ascertained, and such information as is thought proper for your consideration.

The following statement will show the receipts and expenditures :

RECEIPTS

Appropriations	\$136,443.33
Transferred from General Treasury Fund .	65.47
	\$136,508.80

EXPENDITURES

Pay Rolls	\$110,803.83
Water Works	436.71
Hose, Pipes and repairs of same	1,718.00
Telephone	257.31
Express and Freight	43.25
Horses and use of same	2,473.60
Shoeing	1,805.89
Veterinary and Medicines	336.15
Hay, Straw and Grain	6,943.29
Harness and repairs of same	662.55
Furniture, etc.	569.92
Coal and Wood	2,930.75
Gas	1,687.63
Printing	236.60
Repairs on Apparatus and Houses	2,146.38
Laundry	132.82
Cloth, Buttons and Badges	365.85
Fire Alarms, repairs, etc.	1,023.55
Oil, Sponges, Brooms, etc.	1,934.72
Total Expenditures for the year	\$136,508.80

SALARIES OF MEMBERS OF FIRE DEPARTMENT

Chief Engineer	\$2,200.00 per annum
First Assistant Engineer . .	1,500.00 “ “
Other Assistant Engineer . .	400.00 “ “
Foremen of the Companies (call)	300.00 “ “
Call Men	200.00 “ “
Permanent Men	2.75 “ day
Foreman of Companies (permanent)	3.00 “ “
Engineers of Steamers (permanent)	3.00 “ “

This department is divided into two classes, Permanent and Call. The Permanent force consists of

Chief Engineer,	25 Drivers,
1 First Assistant Engineer,	17 Laddermen,
1 Fire Alarm Operator,	6 Engineers of Steamers,
32 Hosemen,	1 Driver for the Chief En-
7 Patrolmen,	gineer.

A total of 90, of which 15 are Captains and 17 Lieutenants.

The Call force consists of

3 Assistant Engineers,	63 Hosemen,
23 Laddermen,	

A total of 89, of which there is 1 Captain.

This makes a total of 179, divided into companies as follows :

- 6 Steam Fire Engines, with Hose Wagons.
- 5 Horse Hose Companies.
- 4 Hook and Ladder Companies, 2 with Chemical Engines attached.
- 1 Protective Company

The changes in the force during the year have been as follows :

Appointed on Permanent force	.	.	.	8
Appointed on Call force	.	.	.	8
Discharged	.	.	.	6
Transferred	.	.	.	1
Deaths	.	.	.	3

The apparatus is kept in the best possible condition and consists at present of six Engines, eleven two-horse Hose Wagons, one Babcock Aerial Truck and three Trucks of other patterns, two Chemical Engines, one Hale Water Tower, one Patrol Wagon and Sleigh, fully equipped, six Hose Pungs, eight Fuel Wagons, two Wagons and one Sleigh for use on fire alarm, one Wagon and Sleigh for Chief's use, one Wagon for Assistant Chief's use, and nineteen Fire Extinguishers. In reserve there are three two-horse Hose Reels.

Engines 4 and 6 were sent to Manchester to undergo a general overhauling at an expense of \$3,150.00.

FIRE ALARM

This branch of service has been maintained in most excellent condition by the operator, Mr. H. C. Fernald.

There have been two hundred and six alarms given from signal boxes, and the "No School" signal has been given thirteen times the past year.

Connected with the circuit there is one ten-circuit non-interfering repeater, one ten-circuit cut-out and testing switchboard, one slate protector, twelve galvanometers, eleven bell-strikers, fifteen large gongs for engine houses, eight small gongs, seventeen indicators, sixteen electromagnets and connections for opening stall doors, twenty-three electric light current protectors, one hundred and seventeen public and ten private signal boxes, one hundred miles of wire, the whole supplied with a storage battery of four hundred cups.

There is also one large gong and indicator combined in the Police Station, one large gong at Pumping Station, Merrimack Square, Tower's Corner, and near the Northern Depot.

An additional appropriation will be needed this year to extend the placing of wires underground.

TELEPHONE

There are connected with this system twenty stations, consisting of transmitter, telephone bell and battery; there are also twenty-two tap bells for the rooms of the Engine Houses, and about forty miles of wire owned by the city, under the care of the Fire Alarm Operator, except the telephones and transmitters, which are leased from the Telephone Company. The ringing line is supplied by a storage battery of one hundred and ten cups.

HORSES AND HARNESSES

There are fifty-nine horses in the service of the Department. Eleven new ones have been purchased the past year

to take the place of ten that had passed their usefulness for this Department. There are twelve sets of double, ten sets of three-horse hitch harnesses, and four single swinging harnesses of the Berry and Hale patents.

PROTECTIVE DEPARTMENT

This department is maintained by the city and consists of seven permanent men. They responded to two hundred and sixty-six alarms; in service three hundred and eighteen hours; spread six hundred and thirty-four covers, and used one hundred and forty-six extinguishers; raised eighty feet of ladders; laid one hundred and fifty feet of hose.

Chemical Engine C, attached to Truck 2, has used seventy tanks. Chemical B, attached to Truck 3, has used seventy-two tanks.

HYDRANTS

Five new hydrants on the low and two on the high service have been added the past year. The low service ones are located as follows: Cashin, Corey, Moody, Rhodora and Victoria Streets. The high service ones are on Laurel and Richards Streets, making a total of 1,197.

HOSE

The Department will need two thousand feet of new hose the present year.

FIRES AND LOSSES

The whole number of alarms of fire during the year ending December 31, 1905, was seven hundred and ninety-eight. Two hundred and six were given from signal boxes (one general alarm included), one hundred and ninety-eight stills, two hundred and thirty-seven telephones, sixteen automatics and one hundred and thirty-eight reported alarms. The No School signal was given thirteen times. There were three hundred and seventy-nine fires extinguished by chemicals alone and one hundred and fifty-four where water was used. The remaining number were extinguished by other means or had been put out before the arrival of the Department. The largest number of alarms were given in April—one hundred and forty; July followed with seventy-four, and November with sixty.

The whole amount of loss except the reported ones was \$6,160.03; insurance, \$1,106,160.05; paid, \$4,310.03; loss above insurance, \$1,850.00; valuation, \$1,485,929.44; the reported loss was \$4,802.15; insurance, \$138,879.55; paid, \$4,802.15; valuation, \$11,094,600.00.

There have been twenty-one alarms for fires out of the city to which some part of the department has responded the past year, for which no insurances are kept—Dracut, 7; Tewksbury, 7; Chelmsford, 6; Tyngsboro, 1.

There has been only one notable fire the past year. An alarm from box 13 at 3.02 a. m., followed by a general alarm at 3.11, called the Department to a very stubborn fire in the basement of what is called Barristers' Hall, corner of Merrimack and Central streets, October 8. The recall was sent in at 11.42 a. m. The loss was \$29,041.80.

There were only eighteen other fires where the loss was \$1,000 and over.

January 7, George H. Taylor's stable and dwelling on Nichols street. Loss, \$2,209.16.

January 9, Lowell Waste Co.'s waste mill on Gorham street. Loss, \$1,421.73.

January 23, Mrs. Thomas Stott's dwelling on Pawtucket street. Loss, \$1,519.60.

February 10, E. M. Ferris' dwelling on Fremont street. Loss, \$1,016.93.

February 19, block owned by J. Flynn on Maple street. Loss, \$1,010.

February 28, J. A. Foisey's dwelling on Lilley avenue. Loss, \$1,578.80.

March 2, block owned by Charles A. Stott, with several occupants, on Middlesex street. Loss, \$1,983.44.

April 3, C. I. Hood's stable on Andover street. Loss, \$2,000.

April 3, Mrs. B. Glynn, stable and dwelling on Reservoir street. Loss, \$1,515.

April 4, block owned by C. B. Coburn estate on Market street, occupied by the Lowell Mail Co. Loss, \$1,870.32.

April 18, J. H. Lynch's stable and dwelling on Worthen street. Loss, \$1,343.50.

May 24, block owned by Greenwood Bros. on Central street. Loss, \$3,261.

May 25, block owned by Gray Bros. on Madison street. Loss, \$1,608.

June 16, J. Boisvert's dwelling on Hildreth street. Loss, \$3,382.

June 17, dwelling owned by E. J. Medina on Grove street. Loss, \$1,440.25.

November 11, stone mill owned by R. Carruthers estate on Warren street. Loss, \$6,211.29.

November 16, block owned by J. Saunders on Moody street, occupied by Mrs. Caswell as a garage. Loss, \$4,477.69.

December 6, Doherty Bros.' foundry on Perrin street. Loss, \$3,192.15.

Making a total loss of \$70,082.66 on the nineteen fires.

There have been fourteen incendiary and supposed incendiary fires the past year which were investigated by M. F. Casey, the fire marshal's aid. William Ferron was arrested and placed on probation.

There have been seven false alarms. April 18, at 10.44 p. m., box 147 was pulled in by a man named Patrick Lennon, brother-in-law to J. H. Lynch. At 10.58 an alarm from box 7 called the Department to a fire in Lynch's house on Worthen street. It was supposed that the false alarm was pulled in to get that part of the Department nearest to Lynch's house away, so that his place could get a good start. Lennon hired a team to do his part. He was arrested, pleaded guilty and was fined \$50. Lynch died soon after, which closed the case.

For further particulars in regard to fires and losses, I refer you to the tables annexed to this report.

The following will show the causes of different alarms as near as could be ascertained :

Awnings - - - - -	3	Incendiary - - - - -	8
Autos - - - - -	2	Incubator - - - - -	1
Alarms for same fire -	28	Lightning - - - - -	2
Brush - - - - -	17	Naptha explosion - - -	1
Building collapsed - -	1	Overheated oven - - -	1
Chimneys - - - - -	72	Overheated furnace - -	1
Combustion - - - - -	19	Oil lamps - - - - -	12
Clothes in closet - - -	6	Oil stoves - - - - -	4
Careless use of matches	13	Out of the City - - -	21
Cigar stub - - - - -	10	Overtured stove - - -	1
Careless smoking - - -	7	Overheated thermostat -	9
Chemicals - - - - -	1	Overheated fire place -	1
Children and matches -	35	Picker - - - - -	1
Candle-set curtain - -	1	Pipe in coat pocket - -	2
Dumps - - - - -	45	Peat meadow - - - - -	1
Defective chimneys - -	16	Rekindled - - - - -	10
Drying plaster - - - -	2	Rats' nests - - - - -	7
Defective motor - - - -	1	Rubbish - - - - -	19
Defective smoke pipe -	1	Steam escaping - - - -	6
Electric wires - - - -	8	Supposed incendiary -	6
Exposure - - - - -	3	Stove smoking - - - -	14
False alarms - - - - -	7	Spark-set charcoal - -	1
Fat on stove - - - - -	5	Spark-set knapping	
Flooding commons - - -	2	machine - - - - -	1
Furnace smoking - - - -	2	Spark-set roof - - - -	12
Fireworks - - - - -	1	Spark-set hay - - - -	2
Fire crackers - - - - -	5	Spark-set shavings - -	2
General alarm - - - - -	1	Spark-set wood - - - -	1
Gas radiator - - - - -	1	Sparks from locomotives	5
Gas stoves - - - - -	3	Stove blacking - - - -	1
Gas leak - - - - -	5	Thawing water pipes -	9
Gasjet-set curtains - -	7	Tar kettles - - - - -	3
Grass - - - - -	106	Turpentine on stove -	1
Hot ashes - - - - -	13	Unknown - - - - -	23
Hot stoves - - - - -	8	Water leak - - - - -	8
Hot air balloons - - - -	4	Wires crossed - - - -	1

Of the buildings in which these fires occurred, three hundred and sixty-nine were of wood and sixty-four were of brick and stone.

WOODEN BUILDINGS

BLOCKS, COTTAGES, ETC.			MILLS		CHURCHES	SCHOOL- HOUSES	SHEDS	STABLES	
1	Story,	1,938	1	Story,	27	26	28	2,277	2,289
1	1-2	“ 2,294	2	“	25				
2	“	3,936	3	“	49				
2	1-2	“ 2,147	4	“	49				
3	“	987	5	“	5				
4	“	148							
5	“	21							
11,471			155		26	28	2,277	2,289	

Total number of wooden buildings 16,246

An increase during the past year of 164

BRICK BUILDINGS

BLOCKS, ETC.			MILLS			CHURCHES	SCHOOL- HOUSES
1	Story,	62	1	Story,	21	18	23
2	"	126	2	"	64		
2 1-2	"	68	3	"	73		
3	"	215	4	"	49		
4	"	189	5	"	23		
5	"	34	6	"	26		
6	"	6	6 1-2	"	7		
700			263			18	23

Total number of brick buildings 1,004

An increase during the past year of 6

STONE BUILDINGS

Churches	9	3 Story	8
1 Story	2	4 "	6
2 "	26		

IRON BUILDINGS — 3

Total number of Iron Buildings	3
Total number of Stone Buildings	51
Total number of Buildings of all descriptions	17,304
An increase during the past year of	173

Some of these blocks have from four to twenty tenements.

The following table shows the number of alarms of fire each month :

January	39	August	24
February	47	September	35
March	50	October	51
April	140	November	60
May	65	December	39
June	35	Reported	138
July	74	Total	798

SERVICE OF THE DEPARTMENT FOR 1905

FIRE DEPARTMENT

17

	Number of alarms attended	Number of hours worked	Feet of hose laid	Hours of hydrants in use	Number of extinguishers used	Number of chemical tanks used	Feet of ladders raised	Hours engines worked	Number of covers used
Engine	72	57 1-2	5,200	13	25			1 3-4	
"	85	58 3-4	8,350	7 1-4	29			2 1-4	
"	171	159 3-4	11,150	26 1-2	12			5 3-4	
"	147	129 3-4	7,100	23	45		250	8 1-4	
"	70	85	7,900	6 1-2	36			14 3-4	
"	133	142	8,050	13 3-4	14			4	
Hose	121	92	6,100	16 1-2	30				
"	168	167 3-4	22,350	51 1-4	54				
"	75	75	8,200	10	61				
"	132	111 1-2	8,850	17 3-4	36		858		
"	47	33 1-2	3,450	7 1-4	21		1,080		
Truck	49	64				70	2,053		
"	129	118				72	1,208		
"	194	183 3-4					80		
"	99	76 3-4							
Protective	266	318 1-2	150		146				634
Total	1,958	1,873 1-2	96,850	192 3-4	509	142	5,529	31 3-4	634

There were two deaths by burning the past year: July 9th, Nora Lynch, three years old, clothes caught while playing with matches. June 26, A. Pachceo, kicking a live wire in the street, received a shock and was burnt to death.

There have been three deaths in the Department the past year: March 12th, A. Jamieson, a Call member of Engine 2; he joined the Department December 1894. May 1st, after a short illness, Captain Jerry Flagg, of the Protective Co. passed away; he was one of the oldest members in the Department; he joined in 1855. Everybody knew Jerry as one of the most honest and faithful firemen; he will be missed for a long time. June 24, Lieutenant C. A. Thompson, a member of Truck 2; another old member. He never regained his health after the O'Donnell & Gilbride fire. He joined the Department in May, 1880.

The following is a list of the injured: Lieut. Collins, Engine 1; Lieut. Merrill, Truck 3; Wm. Foss, Truck 3; G. A. Dickey, Truck 2; J. F. Convery, Hose 8; J. F. McKissock and M. C. Rowell (who was injured twice), Protective Company.

LOWELL FIREMEN'S FUND ASSOCIATION

This benevolent association was organized December 17, 1885, for the purpose of furnishing relief to such of its members as should receive injuries while in the discharge of their duties. The income is derived from an annual assessment upon each member and by donations from citizens and others; and in behalf of the members of the association, I would return thanks to all those who have aided us in the past.

The following donations have been received the past year :

Lowell Waste Co.	.	.	.	\$25.00
Mrs. K. Stott	.	.	.	25.00
Middlesex Manufacturing Co.	.			50.00
Fay Bros. and Hosford	.	.		115.57
Town of Tyngsboro	.	.	.	100.00
W. H. McDaniels	.	.	.	25.00
People's Theatre	.	.	.	65.00
A Citizen	.	.	.	1.00
American Woolen Co.	.	.	.	125.00
J. L. Chalifoux	.	.	.	100.00
Hillside Church, Dracut	.	.		5.00
Rollaway	.	.	.	10.00
				\$646.57

The following shows the amount standing to the credit of the association December 31, 1905 :

Balance on hand Dec. 31, 1904	\$26,544.60	
Cash received to Dec. 31, 1905	1,849.64	
Total		\$28,394.24
Cash paid out, including three death claims, to Dec. 31, 1905		2,905.12
On hand Dec. 31, 1905		\$25,489.12

In conclusion I wish to thank my Board of Engineers, officers and members of the Department for their promptness and efficiency in the performance of their duties. To the Mayor and City Council, Clerk, Auditor, Treasurer, Superintendents of the different departments, and all others who have in any way assisted me in the discharge of my duties, I extend my sincere thanks.

Respectfully submitted,

EDWARD S. HOSMER,

Chief of Fire Department.

Schedule of All the Fires Which Occurred in the City of Lowell During the Year Ending December 31, 1905.

Date 1905	Time	Signal	Recall	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage Building	Contents	Amount of Insurance Building	Contents	Cause of Fire	Remarks
Jan. 3	9 08 a m	145	9 17 a m	Queen st.	Wood	M. Manly.	Several	Dwelling	.....	.....	.....	.....	Child and matches	
4	6 05 p m	223	.....	.....	.....	P. Quigley estate.	.....	.....	.....	.....	.....	.....	Chimney	No school
5	7 46 a m	222	.....	.....	Wood	Colony's estate	.....	Dwelling	.....	.....	.....	.....	Hot ashes in barrel	No school
6	6 05 p m	225	1 31 a m	Levins st.	Wood	R. G. Bartlett.	.....	.....	.....	.....	.....	.....	No school	No school
7	1 47 a m	84	3 17 a m	Nichols st.	Wood	John Beggs.	Geo. H. Taylor.	Stable	\$ 1,194 16	\$ 1,000 00	\$ 2,000 00	\$ 1,000 00	Hot ashes in barrel	No school
8	1 47 a m	84	3 17 a m	Nichols st.	Wood	John Beggs.	Mrs. Saunders.	Dwelling	15 00	129 50	2,000 00	1,000 00	No school	No school
9	2 41 p m	61	4 39 p m	Nichols st.	Wood	W. E. Butler, Jr.	.....	Wagon	.....	.....	.....	.....	Water leak	.....
10	11 41 a m	82	11 56 a m	Chelmsford st.	Wood	Lovell Waste Co.	Several	Waste Mill	700 00	721 73	2,000 00	1,800 00	Combustion	Child and matches
11	12 45 p m	82	.....	.....	Brick	N. Chapman Co.	Several	Dwelling	30 00	3,000 00	.....	.....	Overheat thermostat	Thawing water pipe
12	1 23 p m	222	.....	.....	Brick	J. M. G. Parker est.	Several	Stores and offices.	.....	.....	.....	.....	Thawing water pipe	Thawing common
13	1 15 a m	221	.....	.....	Wood	North Common	.....	Dwelling	.....	.....	.....	.....	Flooding common	.....
14	1 15 a m	221	.....	.....	Wood	North Common	.....	Dwelling	.....	.....	.....	.....	Chimney	.....
15	1 15 a m	221	.....	.....	Wood	North Common	.....	Dwelling	.....	.....	.....	.....	Chimney	.....
16	1 15 a m	221	.....	.....	Wood	North Common	.....	Dwelling	.....	.....	.....	.....	Chimney	.....
17	6 15 p m	221	.....	.....	Wood	North Common	.....	Dwelling	.....	.....	.....	.....	Chimney	.....
18	10 58 a m	13	3 08 p m	Bridge st.	Brick	Geo. Runals.	Geo. Evans.	Restaurant	221 52	227 92	3,000 00	3,000 00	Hot stove and naphtha	.....
19	7 23 a m	13	3 08 p m	Bridge st.	Brick	Geo. Runals.	G. W. Patten.	Florist	250 00	320 00	10,000 00	10,000 00	Hot stove and naphtha	.....
20	6 44 p m	338	7 10 p m	Maple st.	Wood	Eugene Sullivan.	Middlesex Co.	Dwelling	14 35	110 00	5,200 00	1,000 00	Same fire	.....
21	11 15 a m	338	.....	.....	Wood	W. Moore.	E. Sullivan.	Shed	85 00	.....	1,600 00	.....	Water leak	.....
22	11 15 a m	338	.....	.....	Wood	W. Moore.	Thos. Stott.	Dwelling	750 00	759 50	13,000 00	10,000 00	Hot stove set wood	.....
23	2 37 p m	221	.....	.....	Wood	Thos. Stott.	.....	Dwelling	.....	.....	.....	.....	Stove smoking	.....
24	8 52 a m	5	8 19 a m	Adams st.	Brick	M. Marnin.	.....	Stores and offices.	.....	.....	.....	.....	Stove smoking	.....
25	12 45 p m	221	.....	.....	Brick	G. W. White.	E. W. Shaw.	Dwelling	25 00	40 15	6,850 00	6,850 00	Hot stove set wood	.....
26	5 48 p m	116	.....	.....	Wood	T. J. Sanborn.	Mrs. H. Burrough.	Dwelling	10 50	.....	1,400 00	.....	Hot stove set wood	.....
27	10 17 p m	221	.....	.....	Wood	T. J. Sanborn.	Mrs. H. Burrough.	Dwelling	10 50	.....	1,400 00	.....	Hot stove set wood	.....
28	7 45 a m	222	.....	.....	Wood	Mrs. M. D. Holt est.	Mrs. Hill.	Dwelling	.....	.....	.....	.....	Hot stove set wood	.....
29	7 45 a m	222	.....	.....	Wood	Mrs. M. D. Holt est.	Mrs. Hill.	Dwelling	.....	.....	.....	.....	Hot stove set wood	.....
30	9 25 a m	221	.....	.....	Wood	Mrs. J. Sullivan.	Mrs. J. Sullivan.	Dwelling	.....	.....	.....	.....	Hot stove set wood	.....
31	9 25 a m	221	.....	.....	Wood	Mrs. J. Sullivan.	Mrs. J. Sullivan.	Dwelling	.....	.....	.....	.....	Hot stove set wood	.....
Feb. 1	2 31 a m	74	3 25 a m	Varum ave.	.....	E. Shaw.	E. W. Shaw.	Stable	333 40	427 40	2,000 00	1,000 00	Unknown, supposed chf from furnace	.....
2	10 55 p m	221	.....	.....	Wood	Teckbury st.	C. W. Parsons.	.....	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
3	8 40 p m	221	.....	.....	Wood	Teckbury st.	C. W. Parsons.	.....	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
4	1 15 p m	222	.....	.....	Wood	Davidson st.	P. Kelley.	Out House.	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
5	8 40 p m	221	.....	.....	Wood	Davidson st.	P. Kelley.	Out House.	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
6	6 05 p m	222	.....	.....	Wood	Davidson st.	P. Kelley.	Out House.	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
7	6 52 p m	221	.....	.....	Wood	Davidson st.	P. Kelley.	Out House.	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
8	2 19 p m	165	.....	.....	Brick	Davidson st.	P. Kelley.	Out House.	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
9	8 02 p m	165	.....	.....	Brick	Davidson st.	P. Kelley.	Out House.	.....	.....	.....	.....	Unknown, supposed chf from furnace	.....
10	4 04 a m	68	4 30 a m	remont st.	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
11	6 15 a m	75	6 22 a m	Summer st.	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
12	11 23 p m	15	2 42 p m	Suffolk st.	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
13	6 58 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
14	4 29 p m	225	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
15	5 53 p m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
16	12 56 p m	224	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
17	12 56 p m	224	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
18	8 13 p m	131	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
19	7 41 p m	38	9 14 p m	Maple st.	Wood	J. Flynn.	.....	Shed	.....	.....	.....	.....	Thawing water pipe	.....
20	5 27 p m	7	7 14 p m	Worthing st.	Brick	J. H. Lynch.	J. H. Lynch.	Shed	.....	.....	.....	.....	Thawing water pipe	.....
21	12 03 p m	221	.....	.....	Brick	J. H. Lynch.	J. H. Lynch.	Shed	.....	.....	.....	.....	Thawing water pipe	.....
22	4 49 p m	31	.....	.....	Wood	E. N. & A. T. Smith	E. N. & A. T. S.	Shed full of tar	.....	.....	.....	.....	Thawing water pipe	.....
23	4 49 p m	31	.....	.....	Wood	E. N. & A. T. Smith	E. N. & A. T. S.	Shed full of tar	.....	.....	.....	.....	Thawing water pipe	.....
24	1 44 a m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
25	3 56 p m	223	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
26	2 45 p m	223	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
27	7 10 a m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
28	8 26 a m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
29	7 04 a m	67	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
March 1	4 30 a m	71	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
2	12 43 a m	42	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
3	1 02 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
4	6 20 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
5	6 05 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
6	6 05 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
7	6 52 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
8	2 19 p m	165	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
9	8 02 p m	165	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
10	4 04 a m	68	4 30 a m	remont st.	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
11	6 15 a m	75	6 22 a m	Summer st.	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
12	11 23 p m	15	2 42 p m	Suffolk st.	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
13	6 58 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
14	4 29 p m	225	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
15	5 53 p m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
16	12 56 p m	224	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
17	12 56 p m	224	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
18	8 13 p m	131	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
19	7 41 p m	38	9 14 p m	Maple st.	Wood	J. Flynn.	.....	Shed	.....	.....	.....	.....	Thawing water pipe	.....
20	5 27 p m	7	7 14 p m	Worthing st.	Brick	J. H. Lynch.	J. H. Lynch.	Shed	.....	.....	.....	.....	Thawing water pipe	.....
21	12 03 p m	221	.....	.....	Brick	J. H. Lynch.	J. H. Lynch.	Shed	.....	.....	.....	.....	Thawing water pipe	.....
22	4 49 p m	31	.....	.....	Wood	E. N. & A. T. Smith	E. N. & A. T. S.	Shed full of tar	.....	.....	.....	.....	Thawing water pipe	.....
23	4 49 p m	31	.....	.....	Wood	E. N. & A. T. Smith	E. N. & A. T. S.	Shed full of tar	.....	.....	.....	.....	Thawing water pipe	.....
24	1 44 a m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
25	3 56 p m	223	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
26	2 45 p m	223	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
27	7 10 a m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
28	8 26 a m	221	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
29	7 04 a m	67	.....	.....	Brick	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
April 1	7 58 a m	6	8 05 a m	Nemphth st.	Brick	Geo. F. Richardson.	Geo. F. Richardson	Roll covering	55 00	31 60	11,800 00	12,500 00	Gas jet and curtain	.....
2	12 43 a m	42	.....	.....	Brick	Geo. F. Richardson.	Geo. F. Richardson	Roll covering	55 00	31 60	11,800 00	12,500 00	Gas jet and curtain	.....
3	1 02 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
4	6 20 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
5	6 05 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
6	6 05 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00	1,500 00	Same fire	.....
7	6 52 p m	221	.....	.....	Wood	Mrs. E. M. Farris.	E. M. Farris.	Dwelling	759 70	237 23	3,000 00</			

8	6 58 p m	Tel	Central st.	Brick	D. S. W.	Several	Dwelling	Brush	Clear stub set sawling
9	1 28 p m	35	West Forest st.	Wood	J. M. Jefferson est.	Several	Dwelling	Brush	Overturned lamp
10	1 12 p m	138	Riverside st.	Brick	D. J. Murphy	Several	Dwelling	Grass	Grass
11	9 03 p m	Stall	First st.	Brick	Locks & Canals	Several	Dwelling	Grass	Grass
12	9 03 p m	Stall	Summer st.	Wood	J. F. Saunders	Several	Dwelling	Grass	Grass
13	10 21 a m	Tel	Merrimack st.	Wood	A. C. Wheelock	Frye & Crawford	Dwelling	Grass	Grass
14	2 46 p m	65	Greenwood Bros.	Wood	D. Norman	Several	Dwelling	Grass	Grass
15	2 25 p m	32	Miss Ann Pleasant.	Wood	A. Travney	D. Norman	Dwelling	Grass	Grass
16	6 03 a m	32	Miss Ann Pleasant.	Wood	A. Travney	D. Norman	Dwelling	Grass	Grass
17	2 57 p m	83	T. H. Elliot	Wood	A. S. Covell	Several	Dwelling	Grass	Grass
18	2 43 p m	83	Sunders ave.	Wood	M. J. Doyle	Several	Dwelling	Grass	Grass
19	1 13 a m	Stall	Richardson court	Wood	S. P. Smith	Several	Dwelling	Grass	Grass
20	6 40 p m	238	Bowden st.	Wood	Richards Bros.	Several	Dwelling	Grass	Grass
21	5 10 p m	Stall	M. Vernon st.	Wood	A. S. Covell	Several	Dwelling	Grass	Grass
22	6 20 p m	Tel	Riverside st.	Wood	A. S. Covell	Several	Dwelling	Grass	Grass
23	6 50 p m	Tel	Riverside st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
24	7 23 a m	Tel	Teleview ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
25	1 40 p m	Stall	First st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
26	1 40 p m	Stall	Quebec st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
27	9 55 p m	Tel	Perry st.	Wood	J. W. Bennett est.	Several	Dwelling	Grass	Grass
28	8 06 a m	Stall	Tanzboro	Wood	D. J. Williams	Several	Dwelling	Grass	Grass
29	1 21 a m	Tel	Vermont ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
30	3 10 p m	Tel	Teleview ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
31	2 52 p m	Tel	Teleview ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
32	10 23 p m	Tel	Wentworth st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
33	10 14 p m	147	Wentworth st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
34	10 58 p m	157	Wentworth st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
35	11 15 a m	Tel	Stevens st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
36	11 22 a m	338	Stevens st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
37	1 50 p m	Tel	Tewksbury	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
38	2 58 a m	93	Rucker ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
39	2 58 a m	Stall	Howard st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
40	11 58 a m	Stall	Howard st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
41	3 10 p m	Tel	Phin st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
42	2 52 p m	Tel	Teleview ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
43	10 23 p m	Tel	Palace st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
44	1 06 p m	Tel	Middlesex st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
45	1 50 p m	Tel	Pawucket st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
46	1 15 p m	Tel	Central st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
47	4 10 p m	Tel	Moody st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
48	4 29 p m	24	South st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
49	2 40 p m	Tel	South st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
50	6 00 p m	Tel	South st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
51	8 50 p m	39	Fletcher st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
52	9 22 a m	Tel	School st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
53	3 08 p m	Tel	East Bleachery st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
54	3 08 p m	Tel	East Bleachery st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
55	5 57 p m	Tel	Plain st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
56	5 57 p m	Tel	Richardson st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
57	11 30 a m	Tel	Gorham st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
58	4 45 p m	Tel	Leverett st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
59	2 15 p m	...	Florence ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
60	10 14 a m	85	Florence ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
61	7 10 a m	Tel	Poston road	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
62	7 50 p m	Tel	Bridge road	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
63	7 50 p m	Tel	Putnamfield road	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
64	5 50 a m	Stall	Pawucket st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
65	5 40 a m	Tel	Agawam st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
66	7 02 p m	Stall	Agawam st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
67	2 58 p m	Stall	Bar of Middle st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
68	10 30 a m	Stall	Little st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
69	3 30 p m	Tel	Panier st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
70	7 10 p m	Tel	Chelmsford	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
71	12 55 p m	Tel	Bridge st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
72	3 57 p m	Tel	Cambridge st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
73	3 45 p m	Tel	Union st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
74	5 50 p m	Stall	Union st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
75	8 05 p m	Stall	Bartlett st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
76	1 p m	Tel	Pawucket st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
77	6 10 p m	Tel	Central st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
78	6 50 p m	Tel	Alken ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
79	1 50 p m	Tel	Alken ave.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
80	1 25 p m	25	Harvard st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
81	1 13 p m	25	Harvard st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
82	7 14 a m	225	Arch st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
83	10 20 a m	Tel	Arch st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
84	10 20 a m	Tel	Chelmsford	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
85	10 12 p m	121	Dutton st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
86	1 02 p m	Tel	Pracut st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
87	1 02 p m	Tel	Sedman st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
88	1 07 p m	Tel	Sedman st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
89	2 15 p m	Tel	Chelmsford	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
90	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
91	11 50 p m	Tel	Sedman st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
92	11 50 p m	Tel	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
93	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
94	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
95	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
96	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
97	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
98	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
99	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
100	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
101	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
102	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
103	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
104	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
105	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
106	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
107	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
108	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
109	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
110	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
111	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
112	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
113	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
114	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
115	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
116	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
117	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
118	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
119	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
120	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
121	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
122	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
123	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
124	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
125	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
126	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
127	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
128	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
129	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
130	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
131	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
132	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
133	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
134	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
135	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
136	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
137	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
138	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
139	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
140	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
141	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
142	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
143	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
144	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
145	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
146	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
147	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
148	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
149	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
150	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
151	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
152	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
153	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
154	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
155	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
156	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
157	11 50 p m	Stall	Alken st.	Wood	Locks & Canals	Several	Dwelling	Grass	Grass
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Date	Location	Wood	Brick	Owned by	Occupied by	Amount of Damage Building	Contents	Amount of Insurance Building	Valuation	Cause of Fire
17	7 55 p m Still	Moody st.		D. J. Murphy.	Several		Dwelling			Chimney
18	4 22 p m Tel.	Locks & Canals.		Band M. R. E.	Several		Grass land.			Grass
19	4 38 p m Tel.	Wood		A. C. Wheelock.	Several		Brush			Overheat fireplace
20	11 37 a m Still	Marshall road.		Bryan Gorman est.	Miscellaneous	\$ 6 00	\$ 19 00	\$ 200 00	\$ 5 00	Children and matches
21	12 03 p m Still	Charles st.		E. A. Rhiesell.	Unoccupied	251 10	400 00			Grass
22	4 35 p m Tel.	High st.		Locks & Canals.	Syndicate					Grass
23	4 45 p m Tel.	High st.		Syndicate	Grass land.					"
24	1 38 p m Tel.	Gorham st.		John Delany.	St Patrick Cemetery					"
25	2 16 p m Tel.	4th ave.		Locks & Canals.	"					"
26	4 40 p m Tel.	First st.		Wood	Locks & Canals.					"
27	7 45 a m Tel.	Warren st.		Moody st.	Wood					Chimney
28	10 12 p m Tel.	Merrimack st.		Wood	Wood					"
29	7 45 a m Tel.	Pollard ave.		Brick	Geo. Filford.	25 00		\$ 800 00		Careless smoking in bed
30	7 12 a m Tel.	Phisher st.		Wood	Wood					Steam escaping
31	6 30 p m Still	Moody st.		Wood	Mrs. Tucker.					Grass set shavings
32	4 00 p m Tel.	Marshall road.		Brick	Unknown.					Grass
33	10 22 p m Tel.	Marshall road.		Brick	Unknown.					"
34	2 16 p m Tel.	Central ave.		Brick	J. B. Poulin.					No school
35	5 45 p m Still	Payette st.		Wood	S. E. Motor Co.					Chimney
36	5 45 p m Still	Payette st.		Wood	C. Smith estate.					Chimney
37	7 45 a m Tel.	High st.		Brick	D. J. Donahue.					Wood box set by hot ashes
38	1 25 p m Tel.	Middle st.		Brick	Several					Chimney
39	6 11 a m Tel.	Broadway		Wood	J. M. G. Parker est.	266 60		500 00		Overheat thermostat
40	6 11 a m Tel.	Broadway		Wood	M. Mollinsky.	301 75		500 00		Supposed incendiary
41	9 33 p m Tel.	Wood		Wood	Doherty Bros.	1,765 00	6,000 00	5,400 00	1,765 00	Spark set woodwork
42	12 15 a m Tel.	Saunders st.		Wood	Doherty Bros.					Rekindled
43	6 30 a m Tel.	Saunders st.		Brick	Doherty Bros.					"
44	6 30 a m Tel.	Saunders st.		Brick	Doherty Bros.					"
45	7 30 a m Tel.	Moody st.		Brick	P. Dempsey estate.	75 00		6,000 00		Incendiary
46	3 32 p m Tel.	Alken st.		Wood	D. J. Murphy.					Grass
47	9 15 p m Tel.	Fourth ave.		Wood	D. J. Murphy.					Dump
48	9 34 p m Tel.	Broadway		Wood	E. Murphy.					Oil lamp
49	10 12 p m Tel.	Middlesex st.		Brick	T. H. Elliott.	102 75		3,400 00	102 75	Careless use of matches set crib
50	6 34 p m Tel.	Lawrence st.		Brick	A. C. Wheelock.					Chimney
51	12 16 a m Tel.	Palmer st.		Brick	Southwick estate.	15 00		17,000 00	15 00	Overheat furnace
52	9 41 a m Tel.	Dummer st.		Wood	A. G. Pollard & Co.	167 00		135,000 00	167 00	Coat pocket something in it
53	9 56 a m Still	East Merck st.		Wood	Locks & Canals.	25 00		1,000 00	25 00	Cloth on floor
54	11 65 a m Still	West View st.		Wood	John Alton.	90 00		1,000 00	90 00	Chimney
55	8 23 p m Still	Forest View ave.		Wood	S. Krystymick.					Stove smoking
56	8 25 p m Still	Morans court.		Wood	J. Moran estate.	15 00		800 00	15 00	Oil lamp dropped on floor
57	2 29 a m Tel.	Middle st.		Brick	J. M. G. Parker est.					Stove fire
58	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		No school
59	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
60	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
61	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
62	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
63	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
64	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
65	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
66	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
67	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
68	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
69	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
70	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
71	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
72	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
73	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
74	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
75	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
76	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
77	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
78	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
79	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
80	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
81	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
82	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
83	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
84	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
85	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
86	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
87	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
88	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
89	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
90	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
91	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
92	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
93	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
94	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
95	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
96	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
97	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
98	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
99	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed
100	2 29 a m Tel.	Middle st.		Brick	Davis & Stewart.	300 00		500 00		Overheat crossed

Schedule of All the Reported Fires (no signal) which Occurred in the City of Lowell During the Year Ending December 31, 1905.

Date	Location	Wood	Brick	Owned by	Occupied by	Amount of Damage Building	Contents	Amount of Insurance Building	Valuation	Cause of Fire
January	5 Exeter street.....	Wood		A. Parker.	Dwelling			\$ 975 25	\$ 9 40	Hot stove set clothes
11	11 Vernon street.....	Wood		J. E. Bolls.	Dwelling			1,000 00	3 25	Overturned oil lamp
12	11 Hasling street.....	Wood		A. Candage.	Dwelling			800 00	48 00	Defective chimney
24	High street.....	Brick		E. J. Neale.	Cotton mill			400 00	8 50	Unknown chimney
25	Second street.....	Wood		Owen Kearney.	Dwelling	\$ 250 00		\$ 801 90	280 00	Hot brick in bed
26	Second avenue.....	Wood		P. F. Brosman.	Dwelling	25 00		1,300 00	20 00	Hot water front exploded
February	1 Gates street.....	Wood		M. J. Mitchell.	"	11 50		1,000 00	11 50	Match in waste basket
1	10 28 p m Tel.	Saunders st.		A. C. Wheelock.	"	55 35		5,000 00	48 00	Match in waste basket
15	10 28 p m Tel.	Saunders st.		Mrs. Fox.	"	12 00		1,000 00	55 35	Oil rags
19	Baycon street.....	Wood		Jennie Merrill.	"	12 00		2,000 00	12 00	Careless use of match
20	West street.....	Wood		A. C. O'Donnell.	Work shop.	18 30		1,000 00	20 00	Spark set pipe
21	French street.....	Wood		C. P. Conant.	Dwelling	65 00		2,500 00	22 70	Hot ashes in bath room
22	Broadway street.....	Wood		E. McCashin.	"	6 00		1,000 00	33 00	Careless use of match
March	London street.....	Wood		Emley Wessell.	"	5 00		1,000 00	25 00	Oil lamp and curtain
26	Sixth street.....	Wood		E. Lang Heils.	"	10 00		1,000 00	10 00	Grass set fence
27	Applenton street.....	Wood		J. A. Benoit.	"	10 00		4,000 00	10 00	Grass set house
28	Fourth avenue.....	Brick		F. W. Cheney.	Dwelling	10 00		801,000 00	10 00	Gas jet set curtain
29	Ludlow street.....	Wood		S. A. Rolfe.	Dwelling	7 50		1,700 00	7 50	Hot ashes
30	Christian street.....	Wood		Samuel Black.	"	18 00		2,000 00	18 00	Gas jet set curtain
9	Mt. Vernon street.....	Wood		Geo. Lawson.	"	10 00		4,000 00	10 00	Gas stove set curtain
12	Pleasant street.....	Wood		J. F. McCoy.	"	12 50		100 00	12 50	Hot box in picker
13	Bellevue street.....	Wood		W. H. Barbaw.	"	50 00		200,000 00	17 30	Gas jet set curtain
19	Hank street.....	Wood		Merrimack Mfg. Co.	Cotton mill.	150 00		1,200 00	17 30	Gas jet set curtain
24	Dutton street.....	Brick		A. Fells.	Dwelling	50 00		300 00	60 00	Cigar stub
20	Beaver street.....	Brick		Geo. Meyls.	"	5 00		4,000 00	5 00	Careless use of match
3	Perkins street.....	Wood		W. H. Brown.	"	5 00		5,000 00	5 00	Careless use of match
9	Madison street.....	Wood		W. H. Brown.	"	5 00		5,000 00	5 00	Careless use of match
11	Highland street.....	Wood		W. H. Brown.	"	5 00		5,000 00	5 00	Careless use of match
12	Highland street.....	Wood		W. H. Brown.	"	5 00		5,000 00	5 00	Careless use of match
16	Princeton street.....	Wood		James Wood.	Druggist	14 00		1,500 00	14 00	Careless use of match
19	Pleasant street.....	Wood		James Goggin.	"	10 00		1,500 00	10 00	Hot coals from stove
20	School street.....	Wood		J. F. O'Donnell.	"	24 70		1,450 00	24 70	Gas jet set curtain
21	Madison street.....	Wood		A. M. Corrigan.	"	122 00		1,500 00	122 00	Smoking in bed
30	Wachusett street.....	Brick		Mrs. A. D. Sherburn.	"	5 00		5,500 00	5 00	Gas jet
1	Cobot street.....	Wood		Several families.	"	75 00		200,000 00	75 00	Careless use of match
10	School street.....	Wood		Mrs. M. E. Harnden.	Cotton mill.	6 00		1,000 00	6 00	Spark set pipe
16	Dutton street.....	Brick		Mark Mfg. Co.	Dwelling	25 00		2,500 00	25 00	Lightning
22	Westford street.....	Wood		K. T. Crawford.	"	15 43		3,000 00	15 43	Lightning
23	Madison street.....	Wood		E. W. Tyrell.	"	87 11		2,000 00	87 11	Lightning
26	Beacon street.....	Wood		D. W. Brown.	"	167 18		3,000 00	167 18	Lightning
26	Bridge street.....	Wood		A. E. C. Sherman.	"	21 00		4,500 00	21 00	Lightning
26	Watson avenue.....	Wood		Several	"	75 00		5,500 00	75 00	Lightning
26	Nichols street.....	Wood		W. A. Taylor.	Dwelling	60 50		4,800 00	60 50	Lightning
26	Gemna avenue.....	Wood		E. B. Black.	"	7 50		2,500 00	7 50	Lightning
26	Avon street.....	Wood		M. Peller.	"	14 00		1,600 00	14 00	Lightning
26	Stanley street.....	Wood		W. H. Gilbert.	"	17 00		1,000 00	17 00	Lightning
26	Tenth street.....	Wood		F. A. Lerrion.	"	36 00		800 00	36 00	Lightning
26	Vernon street.....	Wood		C. S. Boardman.	"	23 50		3,000 00	23 50	Lightning
26	Union street.....	Brick		C. S. Boardman.	"	12 50		4,000 00	12 50	Lightning
26	Liberty street.....	Wood		C. S. Boardman.	"	21 75		1,500 00	21 75	Lightning
26	Madison street.....	Wood		Bridget Keefe.	"	42 00		3,000 00	42 00	Lightning
26	Tenth street.....	Wood		Tom Farnest.	"	22 00		1,500 00	22 00	Lightning
26	Common street.....	Wood		A. T. Fy.	"	11 61		3,000 00	11 61	Lightning
26	Concord place.....	Wood		A. T. Fy.	"	15 75		2,000 00	15 75	Lightning
2	Concord place.....	Wood		Ann Mellon.	"	75 00		2,800 00	75 00	Lightning
26	Fox street.....	Brick		J. Moran.	Store house			10 00	10 00	Lightning
26	Gorham street.....	Wood		F. Farnell estate.	Dwelling	10 00		1,200 00	10 00	Lightning
26	Levin street.....	Wood		W. Brown.	"	12 00		1,500 00	12 00	Lightning
26	Moore street.....	Wood		M. J. Keyes.	"	12 00		1,500 00	12 00	Lightning
30	Market street.....	Wood		W. Brown.	"	12 00		1,500 00	12 00	Lightning
5	Market street.....	Wood		W. Brown.	"	12 00		1,500 00	12 00	Lightning
8	Vernum avenue.....	Wood		W. Brown.	"	12 00		1,500 00	12 00	Lightning
18	Adams street.....	Wood		F. E. McNabb.	"	12 00		1,500 00	12 00	Lightning
19	Market street.....	Wood		B. G. Becknell.	"	12 00		1,500 00	12 00	Lightning
25	Moody street.....	Wood		C. W. Crawford.	"	12 00		1,500 00	12 00	Lightning
26	Lakeview avenue.....	Wood		Arthur Champagna	"	12 00		1,500 00	12 00	Lightning
26	Vernum avenue.....	Wood		A. G. & C. Labance	"	12 00		1,500 00	12 00	Lightning
16	Vernum street.....	Wood		G. F. Fall Labance	"	12 00		1,500 00	12 00	Lightning
18	Vernum street.....	Wood		Merriel Peller.	"	12 00		1,500 00	12 00	Lightning
24	Fayette street.....	Wood		S. Richards.	"	12 00		1,500 00	12 00	Lightning
24	Fayette street.....	Wood		D. Carey.	"	12 00		1,500 00	12 00	Lightning
26	Market street.....	Brick		E. Benoit.	"	12 00		1,500 00	12 00	Lightning
26	Market street.....	Wood		D. C. Southworth	"	12 00		1,500 00	12 00	Lightning
13	Durant street.....	Wood		B. F. Sargent estate.	"	12 00		1,500 00	12 00	Lightning
13	Durant street.....	Wood		Hamilton Mfg. Co.	"	12 00		1,500 00	12 00	Lightning
1	Smith avenue.....	Wood		G. H. McCabe.	"	12 00		1,500 00	12 00	Lightning
7	Applenton street.....	Wood		W. A. Eastman.	"	12 00		1,500 00	12 00	Lightning
7	Alison street.....	Wood		W. T. Griffin.	"	12 00		1,500 00	12 00	Lightning
16	Cross street.....	Wood		B. G. Heald.	"	12 00		1,500 00	12 00	Lightning
16	Cross street.....	Wood		W. R. Brodick.	"	12 00		1,500 00	12 00	Lightning
21	Wentworth avenue.....	Wood		J. A. Mene.	"	12 00		1,500 00	12 00	Lightning
21	Wentworth avenue.....	Wood		John Breen.	"	12 00		1,500 00	12 00	Lightning
21	Wentworth avenue.....	Wood		Mary Brennan.	"	12 00		1,500 00	12 00	Lightning
27	Salem street.....	Wood		Allen McDonald.	"	12 00		1,500 00	12 00	Lightning
31	Rogers street.....	Wood		H. S. Mooney.	"	12 00		1,500 00	12 00	Lightning
Nov.	1 Rogers street.....	Wood		Thomas McKay.	"	12 00		1,500 00	12 00	Lightning
2	Warwick street.....	Wood		F. B. Carson.	"	12 00		1,500 00	12 00	Lightning
3	Warwick street.....	Wood		S. P. Robinson.	"	12 00		1,500 00	12 00	Lightning
9	Central street.....	Wood		George Gerry.	"	12 00		1,500 00	12 00	Lightning
9	Boulevard.....	Wood		E. Perrault.	"	12 00		1,500 00	12 00	Lightning
11	Applenton street.....	Wood		Z. E. Patard.	"	12 00		1,500 00	12 00	Lightning
13	Central street.....	Wood		Hattie Camball.	"	12 00		1,500 00	12 00	Lightning
20	Wentworth avenue.....	Wood		John M. Stanton.	"	12 00		1,500 00	12 00	Lightning
20	Wentworth avenue.....	Wood		John M. Stanton.	"	12 00		1,500 00	12 00	Lightning
21	Vernum avenue.....	Wood		C. E. Everett.	"	12 00		1,500 00	12 00	Lightning
21	Vernum avenue.....	Wood		C. E. Everett.	"	12 00		1,500 00	12 00	Lightning
25	Fletcher street.....	Wood		J. F. Smith.	"	12 00		1,500 00	12 00	Lightning
26	Sixth street.....	Wood		J. J. Glen.	"	12 00		1,500 00	12 00	Lightning
27	Central street.....	Wood		T. H. & E. F. Ryan.	"	12 00		1,500 00	12 00	Lightning
27	Central street.....	Wood		Ron Arch B. of Bos.	"	12 00		1,500 00	12 00	Lightning
8	George street.....	Wood		M. Corbett.	"	12 00		1,500 00	12 00	Lightning
9	Harvard street.....	Wood		T. F. Maguire.	"	12 00		1,500 00	12 00	Lightning
10	Ash street.....	Wood		T. F. Maguire.	"	12 00		1,500 00	12 00	Lightning
10	Wentford street.....	Wood		T. F. Maguire.	"	12 00		1,500 00	12 00	Lightning
11	Wentford street.....	Wood		T. F. Maguire.	"	12 00		1,500 00	12 00	Lightning
19	Bridge street.....	Wood		C. A. Stanley.	"	12 00		1,500 00	12 00	Lightning
21	Bridge street.....	Wood		W. F. Hall.	"	12 00		1,500 00	12 00	Lightning
25	Third avenue.....	Wood		W. F. Hall.	"	12 00		1,500 00	12 00	Lightning
27	Third avenue.....	Wood		W. F. Hall.	"	12 00		1,500 00	12 00	Lightning
Total	Total.....							\$4,802 16	\$11,991,600 00	

FIRE DEPARTMENT

JANUARY 1, 1906

CHIEF ENGINEER

EDWARD S. HOSMER } Office, Palmer St. Engine House
 } Residence, 202 Westford Street

FIRST ASSISTANT ENGINEER

James F. Norton - - - - - Residence, 22 Ames Street

ASSISTANT ENGINEERS

George F. Salmon - - Residence, 95 Mt. Washington Street

Edward Meloy - - - - - Residence, 30 Fort Hill Avenue

Charles Stackpole - - - - - Residence, 105 Liberty Street

CHIEF'S DRIVER

H. B. Sanders - - - Residence, Palmer Street Engine House

TELEGRAPH OPERATOR

Henry C. Fernald - - Residence, Palmer Street Engine House

COMMITTEE ON FIRE DEPARTMENT, 1905

Aldermen Fairweather and Hayes, Councilmen Allard,
White and Shea.

ENGINE COMPANY No. 1

TWELVE MEMBERS		HOUSE ON GORHAM STREET				
Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
15	Captain	C. D. Foley	50	Permanent	June, 1879	Engine House
11	Lieutenant	T. W. Collins	49	Permanent	April, 1884	Engine House
1	Clerk	George W. Lovett	56	Driver, Wagon	Dec., 1875	Engine House
119	Engineer	J. W. Jantzen	52	Permanent	Feb., 1884	Engine House
18	Driver	J. J. Lowney	37	Driver, Engine	July, 1892	Engine House
17	Ass't Engineer	T. McNamara	62	Machinist	April, 1884	740 Lawrence St.
19	Hoseman	J. A. Shea	31	Plasterer	Dec., 1899	28 Butler Ave.
16	Hoseman	T. Caruthers	60	Stamper	April, 1884	Engine House
14	Hoseman	P. Curtin	52	Moulder	May, 1874	43 Abbott St.
13	Hoseman	J. E. Burns	38	Expert	Sept., 1897	14 Carter St.
12	Hoseman	Robert Oatley	44	Laborer	Dec., 1897	82 Blossom St.
10	Hoseman	Wm. H. Kirkpatrick	38	Machinist	Jan., 1897	Engine House
	Hoseman	J. H. Gray	39	Lather	Feb., 1899	23 Ellsworth St.
	Hoseman	M. J. O'Connor	41	Clerk	Jan., 1900	900 Gorham St.

ENGINE COMPANY No. 2

TWELVE MEMBERS

HOUSE ON BRANCH STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
2	Captain	H. Boynton	54	Permanent	April, 1869	Engine House
21	Lieutenant	F. B. Akers	47	Permanent	May, 1878	Engine House
20	Clerk	W. H. Oke	40	Driver, Wagon	Dec., 1893	Engine House
29	Engineer	H. R. Morrison	46	Permanent	July, 1882	Engine House
90	Driver	F. Boynton	43	Driver, Engine	Dec., 1882	Engine House
28	Hoseman	C. F. Stackpole	20	Teamster	Dec., 1904	105 Liberty St.
22	Hoseman	Gilman S. Alcott	22	Compositor	June, 1902	Engine House
24	Ass't Engineer	A. F. Prescott	28	Machinist	June, 1899	Pine St.
27	Hoseman	A. S. Maynard	52	Carpenter	Nov., 1884	Marshall St.
25	Hoseman	C. A. Bugbee	44	Painter	Dec., 1894	62 Grove St.
23	Hoseman	F. H. Harris	29	Tinsmith	Aug., 1899	Engine House
26	Hoseman	C. E. Alway	42	Carpenter	Feb., 1889	3 East Pine St.
	Hoseman	H. Cogswell	29	Teamster	June, 1905	310 Westford St.
	Hoseman	H. L. Foster	20	Machinist	March, 1905	41 D St.

ENGINE COMPANY NO. 3

TWELVE MEMBERS

HOUSE ON PALMER STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
30	Captain	F. Hoyt	57	Permanent	Aug., 1873	Engine House
31	Lieutenant	O. A. Knapp	42	Permanent	July, 1889	Engine House
3	Clerk	F. E. Turner	39	Driver, Wagon	July, 1892	Engine House
33	Engineer	M. I. Collins	50	Permanent	April, 1888	Engine House
133	Driver	V. C. Reed	51	Driver, Engine	Aug., 1885	Engine House
37	Hoseman	F. E. Roark	56	Lighter	July, 1875	Fifth St.
38	Hoseman	G. T. Halstead	55	Permanent	Nov., 1883	Engine House
35	Hoseman	B. F. Freeman	61	Permanent	July, 1892	Engine House
32	Hoseman	J. J. Rinehart	33	Clerk	Dec., 1902	15 Sixth St.
36	Ass't Engineer	A. E. Dearth	45	Permanent	June, 1891	Engine House
39	Hoseman	A. Dore	29	Carpenter	Feb., 1898	8 Oak St.
34	Hoseman	F. A. Farrell	37	Plumber	April, 1898	Market St.
	Hoseman	N. L. Page	24	Machinist	June, 1902	Engine House
	Hoseman	J. A. Lee	24	Fruit Dealer	Jan., 1905	2 Phillips St.

ENGINE COMPANY No. 4

TWELVE MEMBERS

HOUSE ON HIGH STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
40	Captain	J. E. Burns	45	Permanent	Feb., 1882	Engine House
42	Lieutenant	J. E. Sullivan	53	Permanent	May, 1883	Engine House
4	Clerk	W. King	63	Driver, Wagon	Nov., 1863	Engine House
41	Driver	J. J. Harrington	56	Driver, Engine	Nov., 1869	Engine House
134	Engineer	J. D. Ismond	38	Engineer	Mar., 1894	Engine House
44	Hoseman	M. Connors	54	Plasterer	Mar., 1883	Pleasant St.
43	Hoseman	W. T. Dolan	33	Plumber	Nov., 1894	Engine House
46	Hoseman	J. H. Tracy	33	Clerk	Sept., 1897	Fayette St.
48	Ass't Engineer	M. E. Egan	41	Finisher	Dec., 1898	Pleasant St.
49	Hoseman	Thomas Bryan	34	Leather Worker	July, 1899	Concord St.
47	Hoseman	J. M. G. Burns	32	Driver	July, 1895	Engine House
45	Hoseman	Patrick Mooney	31	Machinist	June, 1902	61 Pleasant St.
	Hoseman	Patrick Finnerty	32	Moulder	July, 1903	58 Church St.
	Hoseman	W. J. Green	25	Leather Worker	Dec., 1904	35 Bartlett St.

ENGINE COMPANY No. 5

HOUSE, MAMMOTH ROAD, PAWTUCKETVILLE

TWELVE MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
152	Captain	E. W. Bartlett	58	Permanent	May, 1883	Engine House
52	Lieutenant	G. F. Flint	44	Permanent	Aug., 1892	Engine House
51	Engineer	C. L. Brown	51	Permanent	Jan., 1893	Engine House
53	Ass't Engineer	J. P. Fowler	57	Carpenter	May, 1883	Mammoth Road
55	Hoseman	E. F. Farrell	30	Plumber	Dec., 1898	Sixth Ave.
50	Driver	S. S. Page	57	Driver, Engine	May, 1888	Engine House
58	Hoseman	J. J. Frazier	49	Moulder	June, 1892	Starbird St.
54	Hoseman	J. J. McMannon	34	Machinist	Jan., 1893	Second Avenue
59	Hoseman	A. H. Vinning	61	Carpenter	Mar., 1893	Eighth Ave.
5	Driver	R. W. Broadbent	38	Driver, Wagon	Mar., 1893	Engine House
56	Hoseman	C. A. Campbell	32	Teamster	Oct., 1899	Mammoth Road
57	Hoseman	W. J. Tighe	32	Leather Worker	Nov., 1900	Second Ave.
	Hoseman	J. C. O'Neil	33		Dec., 1904	20 Sixth Ave.
	Hoseman	R. J. Hayes	27	Teamster	Jan., 1905	242 Mammoth Rd.

ENGINE COMPANY NO. 6

TWELVE MEMBERS

HOUSE ON FLETCHER STREET

FIRE DEPARTMENT

27

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
68	Captain	D. J. Hurley	54	Permanent	May, 1879	Engine House
6	Clerk	J. A. Fletcher	49	Driver, Wagon	May, 1880	Engine House
61	Lieutenant	T. H. Rogers	54	Permanent	Dec., 1888	Engine House
64	Hoseman	E. F. Saunders	40	Baker	Feb., 1890	Mt. Washington St.
65	Hoseman	J. J. Murray	53	Cabinet Maker	July, 1885	Bowers St.
60	Driver	S. R. Pendexter	53	Driver, Engine	June, 1892	Engine House
62	Engineer	F. G. Collins	48	Permanent	Dec., 1889	Engine House
67	Hoseman	E. A. Walsh	33	Plumber	June, 1895	Engine House
69	Ass't Engineer	E. Perham	45	Box Maker	July, 1892	Common St.
66	Hoseman	R. E. Burns	40	Permanent	Dec., 1888	Engine House
79	Hoseman	T. F. Maguire	39	Clerk	July, 1892	Butterfield St.
63	Hoseman	T. F. Saunders	35	Horse Shoer	Sept., 1895	Butterfield St.
	Hoseman	J. J. Saunders	33	Plumber	Jan., 1899	Tremont St.
	Hoseman	J. J. McCarthy	36	Plasterer	Jan., 1905	216 Mt. Hope St.

HOSE COMPANY No. 7

HOUSE ON CENTRAL STREET

NINE MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
72	Captain	E. Cunningham	59	Steam Fitter	Aug., 1866	20 Ames St.
70	Lieutenant	E. O'Connell	48	Permanent	Aug., 1878	Hose House
7	Clerk	J. Sullivan	39	Driver, Wagon	July, 1892	Hose House
73	Hoseman	P. S. Emerson	47	Carpenter	Feb., 1883	Lawrence St.
74	Hoseman	E. Crowley	52	Coppersmith	Feb., 1883	Hose House
71	Hoseman	P. McLaughlin	50	Permanent	Aug., 1888	Hose House
78	Hoseman	J. N. Emerson	43	Permanent	July, 1889	Hose House
75	Ass't Driver	T. F. Welch	48	Ass't Driver	Nov., 1887	Hose House
77	Hoseman	Peter Sheehan	38	Clerk	Dec., 1897	11 Lyon St.
76	Hoseman	J. P. Moore	33	Trimmer	Feb., 1898	560 Gorham St.
	Hoseman	J. D'Amours	33	Steam Fitter	Mar., 1903	Thorndike St.

HOSE COMPANY No. 8

HOUSE ON MERRIMACK STREET

NINE MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
86	Captain	D. H. Crowley	45	Permanent	Feb., 1890	Hose House
151	Hoseman	W. J. Flynn	53	Permanent	April, 1885	Hose House
87	Clerk	W. F. Tighe	43	Driver, Wagon	Sept., 1892	Hose House
150	Lieutenant	B. J. Dunn	43	Permanent	Feb., 1890	Hose House
85	Hoseman	T. F. Lynch	41	Piper	Nov., 1895	19 James St.
153	Hoseman	T. F. Welch	50	Cabinet Maker	June, 1884	20 Rockdale Ave
136	Hoseman	J. F. Convery	52	Carpenter	Jan., 1893	39 Adams St.
89	Hoseman	C. Collins	35	Machinist	Aug., 1894	44 Common St.
154	Hoseman	J. Bernier	34	Wood Dealer	May, 1900	65 Salem St.
88	Hoseman	W. M. Barrett	28	Grocer	Aug., 1898	137 Salem St.

FIRE DEPARTMENT

HOSE COMPANY No. 9

NINE MEMBERS			HOUSE ON LINCOLN STREET			
Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
91	Captain	J. Baxter	47	Permanent	July, 1883	Hose House
92	Lieutenant	G. H. Chapman	50	Permanent	May, 1885	Hose House
93	Clerk	C. A. Rock	46	Driver, Wagon	May, 1893	Hose House.
94	Hoseman	F. A. Kappler	48	Carpenter	May, 1893	291 Lincoln St.
95	Hoseman	D. F. Conroy	35	Permanent	Jan., 1894	Hose House
	Hoseman	P. F. Mooney	32	Plasterer	Mar., 1905	110 London St.
96	Hoseman	F. H. Crosby	36	Plasterer	May, 1900	111 Moore St.
	Hoseman	C. L. Crowley	23	Moulder	May, 1905	436 Lincoln St.
97	Hoseman	Robert Maxwell	28	Stamper	June, 1902	4 Carter Place
98	Hoseman	Josh. S. King	33	Driver	Dec., 1902	76 Washington St.
99	Hoseman	W. H. Bamford	27	Plasterer	Jan., 1904	53 Main St.

HOSE COMPANY No. 10

HOUSE ON FOURTH STREET

NINE MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
160	Captain	C. F. Hemenway	56	Permanent	Sept., 1875	Hose House
162	Lieutenant	J. McCafferty	43	Permanent	Nov., 1887	Hose House
161	Clerk	A. E. Kidder	50	Driver, Wagon	Oct., 1887	Hose House
166	Hoseman	D. Common	56	Carpenter	Mar., 1896	Beach St.
164	Hoseman	C. E. Abare	31	Permanent	Sept., 1897	Hose House
168	Hoseman	Fred Mansur	47	Carpenter	Oct., 1889	21 Third St.
167	Hoseman	E. S. Barnes	36	Electrician	July, 1897	Hamilton Corp.
165	Hoseman	C. S. Hoisington	48	Tinsmith	Aug., 1897	Reed, cor. Fifth St.
163	Hoseman	B. M. Simpson	36	Hostler	May, 1901	Fifth St.
	Hoseman	L. P. Reed	26	Machinist	April, 1902	90 Fremont St.
	Hoseman	C. Fife	33	Painter	June, 1905	89 Third St.

FIRE DEPARTMENT

HOSE COMPANY No. 11

NINE MEMBERS

HOUSE ON LAWRENCE STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
200	Captain	J. J. Jennings	46	Permanent	Nov., 1883	Hose House
201	Lieutenant	W. A. Dolan	43	Permanent	Jan., 1888	Hose House
202	Clerk	J. Bamford	47	Driver, Wagon	Dec., 1889	Hose House
203	Hoseman	E. Jennings	48	Permanent	Jan., 1893	Hose House
204	Hoseman	W. H. Meloy		Blacksmith	Dec., 1896	358 Central St.
205	Hoseman	T. J. Dwyer	43	Machinist	Jan., 1893	534 Central St.
206	Hoseman	George Buck	39	Belt Maker	Jan., 1893	742 Lawrence St.
207	Hoseman	J. J. Doherty	43	Fruit Dealer	Jan., 1893	18 Mill St.
208	Hoseman	W. J. Sullivan	38	Shuttle Maker	Nov., 1896	Lawrence St.
	Hoseman	Peter B. Gray	33	Carpenter	June, 1901	71 Whipple St.
	Hoseman	J. H. Lannon	33		Jan., 1905	103 Whipple St.

TRUCK COMPANY No. 1

TEN MEMBERS

HOUSE ON LAWRENCE STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
209	Captain	T. Brown	47	Permanent	May, 1890	Ladder House
210	Lieutenant	T. Dwyer	42	Driver, Truck	Sept., 1888	Ladder House
212	Ladderman	J. O'Hare	40	Driver	Jan., 1893	Ladder House
213	Ladderman	J. F. McGuinness	43	Cloth Finisher	Jan., 1893	34 Floyd St.
214	Ladderman	J. B. Stanton	45	Wool Sorter	Jan., 1893	17 Newhall St.
215	Ladderman	J. D. Finnegan	40	Permanent	Jan., 1893	Ladder House
216	Ladderman	J. J. Donohoe	46	Teamster	Jan., 1893	74 Agawam St.
217	Ladderman	William Gilmore	46	Clerk	Jan., 1893	39 Walnut St.
211	Clerk	William Heelon	45	Permanent	Mar., 1896	19 So. Whipple St.
218	Ladderman	C. J. Meehan	42	Mattress Maker	Aug., 1894	Ladder House
	Ladderman	W. D. Draper	40	Carriage Painter	April, 1898	Lawrence St.
	Ladderman	J. T. Doyle	32	Teamster	Jan., 1905	130 Perry St.

FIRE DEPARTMENT

TRUCK COMPANY No. 2, WITH CHEMICAL ENGINE ATTACHED

HOUSE ON WESTFORD STREET

THIRTEEN MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
121	Captain	D. W. Hilliard	54	Permanent	Aug., 1872	Truck House
120	Lieutenant	G. W. Alcott	52	Permanent	Oct., 1877	Truck House
130	Driver	G. A. Dickey	56	Driver, Chem'cal	Nov., 1888	Truck House
131	Clerk	H. S. Gardner	53	Driver, Truck	May, 1874	Truck House
132	Ladderman	E. E. Smith	51	Permanent	Jan., 1890	Truck House
125	Ladderman	G. E. Maynard	49	Carpenter	Oct., 1888	26 E. Pine St.
129	Ladderman	L. A. Miller	41	Electrician	Nov., 1890	17 Lane St.
127	Ladderman	D. D. Libby	43	Carpenter	June, 1892	62 Sanders Ave.
128	Ladderman	R. B. Joslin	32	Clerk	April, 1898	94 Lane St.
126	Ladderman	S. A. Pickering	40	Carpenter	Nov., 1890	34 Hastings St.
124	Ladderman	Q. A. Foster	47	Blacksmith	June, 1889	41 D St.
123	Ladderman	W. S. Holt	30	Clerk	April, 1898	8 Hale St.
122	Ladderman	H. W. Hilliard	22	Machinist	Jan., 1905	29 Osgood St.
	Ladderman	C. V. Burdick	32	Electrician	July, 1905	568 School St.

TRUCK COMPANY No. 3, WITH CHEMICAL ENGINE ATTACHED

HOUSE ON PALMER STREET

THIRTEEN MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
110	Captain	F. E. Fuller	56	Permanent	May, 1869	Truck House
141	First Lieutenant	H. F. Harris	53	Permanent	Nov., 1888	Truck House
112	Clerk	F. O. J. Townsend	51	Driver, Truck	May, 1886	Truck House
140	Ladderman	W. T. Foss	44	Permanent	April, 1892	Truck House
113	Ladderman	F. W. Simons	54	Permanent	Sept., 1872	Truck House
111	Ladderman	R. Carland	43	Permanent	Oct., 1893	Truck House
143	Second Lieut.	H. A. Merrill	43	Permanent	June, 1884	Truck House
142	Ladderman	P. O'Laughlin	44	Steam Fitter	July, 1893	104 Gorham St.
116	Driver	W. P. Maker	41	Permanent	Sept., 1888	Truck House
115	Ladderman	D. Leary	41	Steam Fitter	Sept., 1892	Wilder St.
118	Ladderman	H. E. Wilkins	47	Permanent	Jan., 1890	Truck House
114	Ladderman	E. Kirwin	56	Steam Fitter	May, 1871	Royal St.
117	Ladderman	E. H. Dearth	42	Permanent	Jan., 1893	Truck House
	Ladderman	Thomas A. Hall	32	Helper	Mar., 1901	Lagrange St.
	Ladderman	W. O. Lussier	38	Blacksmith	April, 1890	84 Fourth Ave.

TRUCK COMPANY No. 4

TEN MEMBERS

HOUSE ON FOURTH STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
102	Captain	H. B. Downs	70	Permanent	July, 1855	Truck House
101	Lieutenant	J. W. Adams	55	Permanent	Aug., 1874	Truck House
100	Clerk	W. L. Peabody	58	Driver, Truck	Nov., 1874	Truck House
105	Ladderman	R. W. Stickney	44	Salesman	May, 1889	61 Twelfth St.
104	Ladderman	E. Lepiene	52	Roll Coverer	Nov., 1894	593 Bridge St.
106	Ladderman	N. Bishop	67	Permanent	July, 1855	Truck House
103	Ladderman	T. McCormick	50	Lineman	Feb., 1886	71 Fourth St.
108	Ladderman	W. N. Flagg	59	Carpenter	Feb., 1884	75 Whitney Ave.
107	Ladderman	H. Mangan	36	Caterer	Aug., 1897	Hildreth St.
109	Ladderman	A. G. Beharrel	25	Real Estate	June, 1901	89 Fremont St.
	Ladderman	Major Wright	33	Brick Layer	Jan., 1905	89 Third St.
	Ladderman	A. B. Strout	27	Market	June, 1905	64 Third St.

PROTECTIVE COMPANY No. 1

SEVEN MEMBERS

HOUSE ON WARREN STREET

FIRE DEPARTMENT

37

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
80	Captain	W. H. Halstead	61	Permanent	May, 1864	Protective House
84	Patrolman	George E. Schofield	38	Permanent	Dec., 1897	Protective House
82	Lieutenant	J. W. Halstead	57	Permanent	Jan., 1872	Protective House
8	Clerk	J. F. McKissock	53	Driver, Wagon	July, 1889	Protective House
83	Patrolman	M. C. Rowell	42	Permanent	April, 1894	Protective House
81	Patrolman	D. W. Russell	52	Permanent	Jan., 1885	Protective House
135	Patrolman	T. F. Conway	37	Permanent	July, 1891	Protective House

FIRE-ALARM TELEGRAPH

Location — Engine House, Palmer St.

HENRY C. FERNALD, Operator

Ten-Circuit Automatic Repeater with Storage Battery of
400 Cups

Miles of Wire	-	-	-	-	-	-	-	-	100
Signal Boxes	-	-	-	-	-	-	-	-	127
Engineers' Gongs	-	-	-	-	-	-	-	-	8
Engine House Gongs		-	-	-	-	-	-	-	15
Indicators	-	-	-	-	-	-	-	-	17
Bell Strikers	-	-	-	-	-	-	-	-	11

Gong and Indicator combined in Police Station.

Gong in Pumping Station.

Gong on Merrimack Square.

Gong at Tower's Corner.

Gong at Northern Depot.

The strikers are located as follows: Palmer Street Engine House, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Engine House, No. 6 Engine House, Highland School House, Lawrence Street Engine House, Cornell Street School House.

TELEPHONE CIRCUIT

Complete Stations	-	-	-	-	-	-	-	19
Tap Bells (Extra)	-	-	-	-	-	-	-	43
Miles of Wire	-	-	-	-	.	-	-	40
Storage Battery of 100 Cups.								

The value of all property, as near as can be ascertained, in care of the Chief of this Department, is \$154,000.

ANNUAL REPORT

OF THE

Superintendent of Street Lights

LOWELL, MASS.

FOR THE

Year Ending December 31

1905



LOWELL, MASS.
BAKER PRINTING CO.
1906.

REPORT.

LOWELL, January 1, 1906.

To the Mayor and Board of Aldermen :

GENTLEMEN ;—Herein is submitted the Annual Report of the Superintendent of Street Lights for the year ending December 31, 1905.

The lighting of the streets is all done by contract, with a rebate for all lights not burning the designated time. In addition to the police, who report all lights not burning and out of order, one permanent man paid by this Dept. (which will be discontinued this year) and two others who are not, from the Fire Department are detailed to look after all lights and see that they are kept in good order and giving the amount of light the City pays for.

The Board of Aldermen ordered the location of thirty-eight (38) new gas lights (four (4) of which have not been set on account of the frost), eight (8) gasoline and eight (8) electric lights the past year. Only four (4) gas lights have been discontinued on account of

electric lights. Sixteen (16) gasoline lights have been changed to gas, making a saving of five dollars on each light per year, besides burning all and every night.

There are at present 1162 gas lights, burning under a new contract, for five years from Oct. 13th, with the Lowell Gas Co., for \$22.75, each light per year to burn all and every night. Making a saving to the City of 25 cts. on each light over the old contract with the Welsbach Co., their lights burning only until one o'clock and out four (4) nights in each month. There are seventeen (17) lights owned by the different corporations, the City paying for the gas used. These lights are lighted and put out by a card issued by the Superintendent monthly. The locations of the gas lights added the past year are as follows:—Abbott Street 3, Butterfield 1, Bridge 1, Clitheroe 1, Crawford 1, Cosgrove 1, Dartmouth 3, Dra-cut 1, Daly 1, East Bleachery 1, Grace 2, Genoa 1, Moody 4, Mount Hope 1, Onley 1, Princeton 1, Rogers 1, School 1, Sanders Avenue 2, Starbird 1, Stratham 3, Tolman 1, Worthen 1, Wyman 1, Woodbury 1, Third Avenue 2. Total 38.

There are at present four hundred (400) gasoline lights. The eight (8) new ones are located as follows; Birch Street 2, Coranell 2, Manchester 1, Spring Court 1, West View 1, Weed 1. The gasolines changed to gas are located as follows:—Abbott Street 2, Billerica 2, Burlington Avenue 2, Cady 2, Crescent 2, Chase 1, Cosgrove 1, Keene 1, Lawrence 1, Main 1, Parker 1. These lights cost 9 1-4 cents each light per night or \$27.75 per year. They only burn twenty-five nights each month until one o'clock.

There are at present five hundred and thirty (530) electric lights, with eight (8) additional on Fort Hill

Park which burn four or five months each year, at the same price as the others. The eight (8) new ones are located as follows;—Central Street opposite the New American House, Dutton Street opposite the Mathews new building, Broadway corner Willie, West Sixth corner Boisvert, Fay corner Pihl, Lee Street opposite Saint Joseph's Church, Moody corner Sixth Avenue and Fletcher opposite Worthen Street.

The contract with the Welsbach Co. for gasoline lights expires next June and before another contract is made I would recommend, that as many of them as possible be changed to gas, as the City would save five dollars on each light per year and they burn all and every night. I would also recommend that as soon as the interests of the City will permit, that an ordinance be passed separating the office of Superintendent of Street Lamps from the office of Chief of the Fire Department.

The following statement will show the appropriation and expenditures for the year 1905 :

APPROPRIATION.

Lighting Streets	\$100,195.00
Lighting Public Buildings	21.00
Sundries	1,154.00
Total,	<u>\$101,370.00</u>

EXPENDITURES.

Electric Light Co.	\$ 63,120.01
Welsbach Co. Gas	19,898.39
Welsbach Co. Gasoline	11,197.02
Gas Co.	5,758.22
Total Streets,	<u>\$ 99,973.64</u>
Public Buildings	\$ 31.77
Sundries	1,064.45
Transferred to general treasury fund	300.14
	<u>\$101,370.00</u>

The value of all property as near as can be ascertained in care of the Superintendent of this Department is \$17,000.00.

Respectfully submitted,

EDWARD S. HOSMER,

Superintendent.

ANNUAL REPORT

OF THE

BOARD OF POLICE

FOR THE

YEAR ENDING MAY, 1906.



LOWELL, MASS.

COURIER-CITIZEN JOB PRINT,

1906.

ANNUAL REPORT.

OFFICE OF THE BOARD OF POLICE

Lowell, Mass., June 1, 1906.

HON. JAMES B. CASEY,

Mayor, City of Lowell.

Sir:—The Board of Police submits herewith the annual report of the Lowell Police Department. Inasmuch as this Board has been in charge of the Department only since May 5, 1906, its reasons for confining its report to the purely statistical record of the Department's work, will be obvious.

Respectfully submitted,

JOHN R. SHEA,
FREDERICK N. WIER,
JOHN W. McEVOY,

Board of Police.

LICENSES TO SELL INTOXICATING LIQUORS
GRANTED, TRANSFERRED, SURRENDERED AND
CANCELLED, ETC., 1905-1906.

LICENCES GRANTED.

17	1st Class Innholders
75	1st Class Common Victuallers
92	4th Class Retail Dealers
2	4th Class Wholesalers
1	5th Class Brewer
51	6th Class Druggists
5	7th Class Dealers in Paints and Chemicals
3	Special Class as Clubs
246	Total issued

LICENCES TRANSFERRED.

1	1st Class as Common Victualler
1	4th Class as Retail Dealer
2	6th Class as Druggists
4	Total transferred

LICENSES REVOKED.

2	6th Class as Druggists
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LICENSES SURRENDERED AND CANCELLED.

1	1st Class as Innholder
1	1st Class as Common Victualler
2	4th Class as Retail Dealers
4	Total surrendered and cancelled

REVENUE FROM LIQUOR LICENSES.

16	1st Class Innholders at \$1,650.00	\$26,400 00
75	1st Class Common Victuallers at \$1,300.	97,500 00
91	4th Class Retail Dealers at \$500	45,500 00
2	4th Class Wholesale Dealers at \$1,500	3,000 00
1	5th Class Brewer at \$1,500.	1,500 00
51	6th Class Druggists at \$1.00	51 00
5	7th Class Dealers at \$1.00.....	5 00
3	Special Club at \$50.00	150 00

\$174,106 00

Less 25 per cent. for State

43,526 50

Revenue to City

\$130,579 50

The money refunded for licenses surrendered and cancelled is balanced by fees paid for licenses reissued in their place.

MINOR LICENSES GRANTED, 1905-1906.

135	Junk Collectors
19	Dealers in Junk
15	Dealers in 2nd Hand Clothes, Precious Metals, etc.
160	Job Wagons
21	Fish Wagons
9	Lunch Wagons
65	Hackney Coaches
352	Common Victuallers
270	Hawkers and Pedlars
55	Pool and Billiards
35	Auctioneers
2	Circuses
13	Employment Offices
10	Pawnbrokers
3	To loan money on personal property exempt from attachment
3	Theaters
3	Skating Rinks
6	Amusement Permits
128	Sunday Concert Permits
2	Itinerant Venders

1296

Revenue from Minor Licenses, \$2,813.90.

LOWELL POLICE FORCE, 1905-1906.

The Lowell Police Force consists of:—

1	Superintendent of Police
1	Deputy Superintendent
1	Captain
4	Lieutenants
5	Inspectors
3	Sergeants
101	Patrolmen
24	Reserve or Supernumerary Men
140	Total Police Force
1	Pensioner

In addition the Department employs:—

1	Chief Electrician
1	Assistant Electrician
1	Signal Service Operator
3	Patrol Wagon Drivers
1	Hostler
1	Charman
1	Messenger
1	Stenographer and Typewriter
1	Matron of Prison
11	Employees
152	Total

During the year 11 men were selected from the Civil Service eligible list and appointed on the Probationary Reserve Force; four Probationers were promoted to the Permanent Reserve Force; and three from the Reserve to the Regular Force. Two officers died during the year; one resigned, and four were brought before the Board of Police for various breaches of discipline, two of whom were fined, one reprimanded, and one exonerated.

Patrolman Albert E. Libby entered the Lowell Police Force March 20, 1869 and served continuously until his last illness, which terminated in his death June 16, 1905, after a service of 36 years.

Patrolman John F. Sparks entered the Lowell Police Force May 14, 1895, and died March 10, 1906, after a service of almost eleven years.

The deceased officers were men of excellent character and honorable record, esteemed in life and regretted in death by those who were associated with them officially and socially. Their deaths were a distinct loss to the Lowell Police Department.

STATISTICAL REPORT
OF THE
LOWELL POLICE DEPARTMENT

JUNE 1905—1906 MAY.

RECORD OF ARRESTS.

OFFENCES AGAINST PUBLIC ORDER.

OFFENCE.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals.
Adultery.	2	2	1	2	1	1	1	1	2	5	3	2	15
Bastardy.	1	2	1	1	1	2	1	2	2	1	9	2	14
City Ordinance, Violating	1	1	2	1	1	1	1	1	1	1	1	1	19
Common Brawler	1	1	2	1	2	1	1	1	1	1	1	1	3
Cruelty to Animals	9	1	1	3	1	2	4	3	2	2	3	3	30
Capias, etc.	7	4	1	1	1	1	1	1	1	1	1	1	3
Disorderly House	280	272	341	383	384	284	252	304	224	165	294	266	3,469
Drunkenness	1	6	1	1	1	1	1	1	1	1	1	1	12
Deserted Children	1	1	1	1	1	1	1	1	1	1	1	1	10
Deserters U. S. Service.	1	1	1	1	1	1	1	1	1	1	1	1	12
Escape from Prison	1	1	1	1	1	1	1	1	1	1	1	1	34
Fornication	1	1	1	1	1	1	1	1	1	1	1	1	15
Idle and Disorderly	1	1	1	1	1	1	1	1	1	1	1	1	9
Insane.	3	4	4	3	7	2	1	4	1	2	9	5	39
Gambling	2	10	1	4	2	29	1	9	1	1	1	5	61
Lewd Cohabitation	1	1	1	2	2	2	1	1	1	1	1	1	5
Liquor Laws, Violated	5	9	7	5	6	8	5	5	5	7	8	6	76
Neglect Family	3	1	1	1	1	1	1	1	1	1	1	1	4
Polygamy	3	1	1	1	1	1	1	1	1	1	1	1	4
Profanity	3	1	1	1	1	1	1	1	1	1	1	1	4
Stubbornness.	2	2	5	7	3	2	1	7	4	1	2	2	35
Suspicious Persons	2	11	8	4	15	7	11	21	13	9	4	6	117
Vagrants	2	1	1	2	1	1	1	1	1	1	1	1	9
Miscellaneous.	1	1	4	1	5	1	1	1	2	1	1	4	17
Totals	321	327	384	419	473	316	295	367	268	213	350	335	4,068

OFFENCES AGAINST THE PERSON.

Assault	12	12	23	24	14	9	7	15	16	20	17	18	187
Assault, Felonious	1	1	1	1	1	1	1	3	4	1	1	2	14
Murder	1	1	1	1	1	1	1	1	1	1	1	1	3
Rape	1	1	1	1	1	1	5	1	1	1	1	2	9
Robbery	1	1	1	1	1	1	1	1	1	1	1	1	3
Threats.	2	3	2	3	2	1	1	1	3	1	1	1	19
Miscellaneous	1	1	1	1	1	1	1	1	1	1	1	1	2
Total.	16	15	26	29	17	11	14	20	23	22	19	25	237

OFFENCES AGAINST PROPERTY.

Breaking and Entering	3	4	1	5	5	3	2	7	8	2	5	1	45
Evading Fare	12	18	21	17	22	25	30	23	28	19	14	21	250
Larceny	1	1	5	4	4	4	1	1	1	1	4	1	26
Malicious Mischief.	1	1	1	2	1	1	1	1	1	1	1	1	3
Receiving Stolen Goods	1	2	1	1	1	1	1	1	1	1	2	1	8
Trespass	1	2	1	1	2	1	1	1	1	1	1	5	11
Unlawful Taking.	2	1	1	2	2	1	1	1	1	1	1	1	8
Suspicion Breaking and Entering.	6	5	1	5	3	1	3	4	3	4	6	1	41
Suspicion Larceny	1	1	2	1	1	1	1	1	1	1	1	1	5
Concealing Mortgaged Property	1	1	1	1	1	1	1	1	1	1	1	1	4
Miscellaneous.	1	1	1	1	1	1	1	1	1	1	1	1	4
Totals	24	34	31	36	39	33	38	37	41	28	32	30	403

REPORT OF BOARD OF POLICE

11

DISTRIBUTION OF OFFENCES ACCORDING TO SEX AND NATIONALITY, 1905-1906.

ITEMS.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals.
Men.	268	279	357	399	431	292	285	320	250	285	290	314	3,770
Women.	63	55	41	44	57	32	33	43	34	47	49	38	536
Minors.	20	36	29	32	25	23	22	50	38	24	42	37	378
Non-Residents.	105	119	133	184	175	126	129	138	83	103	85	128	1,508
United States.	158	171	182	204	236	155	172	208	166	173	194	177	2,196
England.	36	29	32	33	32	30	25	42	25	27	33	32	376
Ireland.	79	80	110	134	116	81	70	70	52	84	77	86	1,039
Scotland.	11	9	11	15	8	15	8	9	10	8	7	12	123
British Possessions. .	42	51	56	62	73	51	47	50	43	48	53	62	638
Greece.	9	10	12	6	32	4	7	9	12	4	4	5	114
Russia.	10	8	19	16	12	9	4	15	10	11	13	14	141
Turkish Empire.	4	1	2	2	1	...	1	6	3	1	...	...	21
Miscellaneous.	2	11	3	3	3	2	6	4	1	...	...	1	36
Totals.	351	370	427	475	513	347	340	413	322	356	381	389	4,684

DISTRIBUTION OF OFFENCES ACCORDING TO TRADES AND PROFESSIONS, ETC., 1905-1906.

Building Trades.	19	30	27	46	39	23	27	25	28	27	31	29	351
Mechanical Trades. .	30	37	29	41	35	41	31	49	31	40	38	37	439
Mill and Factory.	102	114	132	114	163	101	94	126	95	109	130	110	1,390
Shops and Stores.	13	16	18	11	22	10	8	17	16	16	20	16	183
Professions.	5	1	1	5	3	1	10	3	3	3	5	4	44
Agriculture, etc.	5	7	13	19	18	6	9	6	4	3	7	11	108
Clothing and Garb.	9	12	11	19	18	7	10	15	6	9	7	12	135
Agents, etc.	3	4	4	7	8	2	7	4	3	1	9	2	54
Laborers.	98	100	143	151	144	114	95	111	82	102	86	106	1,332
Domestic Service, etc.	39	29	26	24	19	14	16	21	24	24	26	26	288
Transportation.	16	9	12	22	25	21	24	25	14	11	8	20	207
Children.	6	7	2	7	13	7	5	7	12	8	9	14	97
Miscellaneous.	6	4	9	9	6	...	4	4	4	3	5	2	56
Totals.	351	370	427	475	513	347	340	413	322	356	381	389	4,684

DIVISIONAL REPORTS

OF THE

LOWELL POLICE DEPARTMENT

1905-1906

MONTHLY REPORT OF PATROLMEN, 1905-1906.

ITEMS.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Assisted home	20	12	17	14	9	10	17	38	19	39	19	22	226
Persons arrested	228	238	256	340	369	246	225	309	208	231	169	179	2,998
Contagious diseases													
Sudden deaths													
Violation liquor law				1			1		1				3
Open doors, secured	73	66	90	90	105	87	97	118	101	83	116	83	1,109
Defective streets, etc.	24	6	12	6	15	7	5	11	6	16	21	19	148
Fire alarms given	2	1	1		1		4		2	3	1		15
Second alarms													
Lost children	7	8	4	10	5	4	6	3	3	1	10	22	83
Lights out, gas	3	2	3	1	17	25	54	63	521	517	43	23	1,272
Lights out, gasoline	94	6	17	42	68	10	21	38	107	58	145	105	641
Lights out, electric	272	56	45	76	104	313	291	124	150	137	116	9	1,693
Teams cared for	3	5	2	2	6	4	4	4	10	3	6	6	55
Obstructions unlighted	17	15	6	8	11	8	4	10	4	12	12	11	115
Obstructions removed	8	3	1	5	4	3	2	5	3	7	7	2	50
Disturbances quelled	23	49	9	29	47	30	46	38	49	24	40	37	421
Value of stolen property recovered...	\$15 00	\$47 63		\$4 25	\$130 00	\$7 00	\$44 15	\$6 35		\$170 00	\$20 00	\$12 00	\$456 38

REPORT OF KEEPER OF LOCKUP.

Lodgers, number, ...	7	4	8	6	6	11	7	4	4	7	4	15	83
Native, ...	2	3	4	3	5	10	5	2	4	4	4	7	53
Alien	5	1	4	3	1	1	2	2		3		8	30
Male	4	4	7	6	5	10	5	3	4	7	2	11	68
Female	3				2	1	2	1			2	4	16
Minors, ...	2		1	1	1	6		2	2		3	8	26
Money taken from prisoners	\$549 17	\$510 10	2030 11	\$900 73	1065 14	718 95	\$356 18	\$714 13	\$867 81	\$502 94	\$732 18	\$979 35	\$9926 79

MONTHLY REPORT OF THE POLICE MATRON OF ARRESTS OF WOMEN 1905—1906.

OFFENCES, ETC.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	Remarks Totals
Adultery.	1	2		3	3				2	2	1	1	7
Assault and battery.	1	2		3	3			46	1	36	1	2	13
Drunkenness.	65	51	38	36	49		33		28		46	30	490
Disorderly housekeeping.													2
Escaped prisoners.								2		1			2
Fornication.					1		1	1	4	2	1		10
Food laws, violation.										1			1
Idle and vicious.		1	2	1						2	2		10
Insane.			1									1	6
Interfering with officer.			1										1
Intoxication.				1	1				1				2
Lewdness.				1				3	3			3	1
Mortgaged property concealed.		2	3	1	1	2							21
Narceny.	1												1
Nuisance, keeping.		4								4		2	10
Neglected children.													1
Profruity.			2										2
Railor and brawler.													1
Removing baggage.					1	1		4		1			10
State keeping.	1	1	1	1	2			3	1	1		1	13
Subbormness.													1
Threats.													1
Vagrancy.										1		1	2
Capias.													
Total arrests.	69	62	50	43	58	35	34	59	44	56	57	42	609
Money taken from prisoners and returned.	\$28 42	\$14 90	\$33 76	\$6 22	\$32 27	\$5 23	\$9 39	\$39 95	\$34 55	\$12 90	\$53 24	\$5 98	\$276 81

MONTHLY REPORT OF THE PATROL WAGON.

Number of wagon calls.	222	268	297	361	348	240	233	298	209	235	252	280	3,243
Number of arrests.	265	315	343	403	423	270	255	350	236	266	299	308	3,753

REPORT OF BOARD OF POLICE

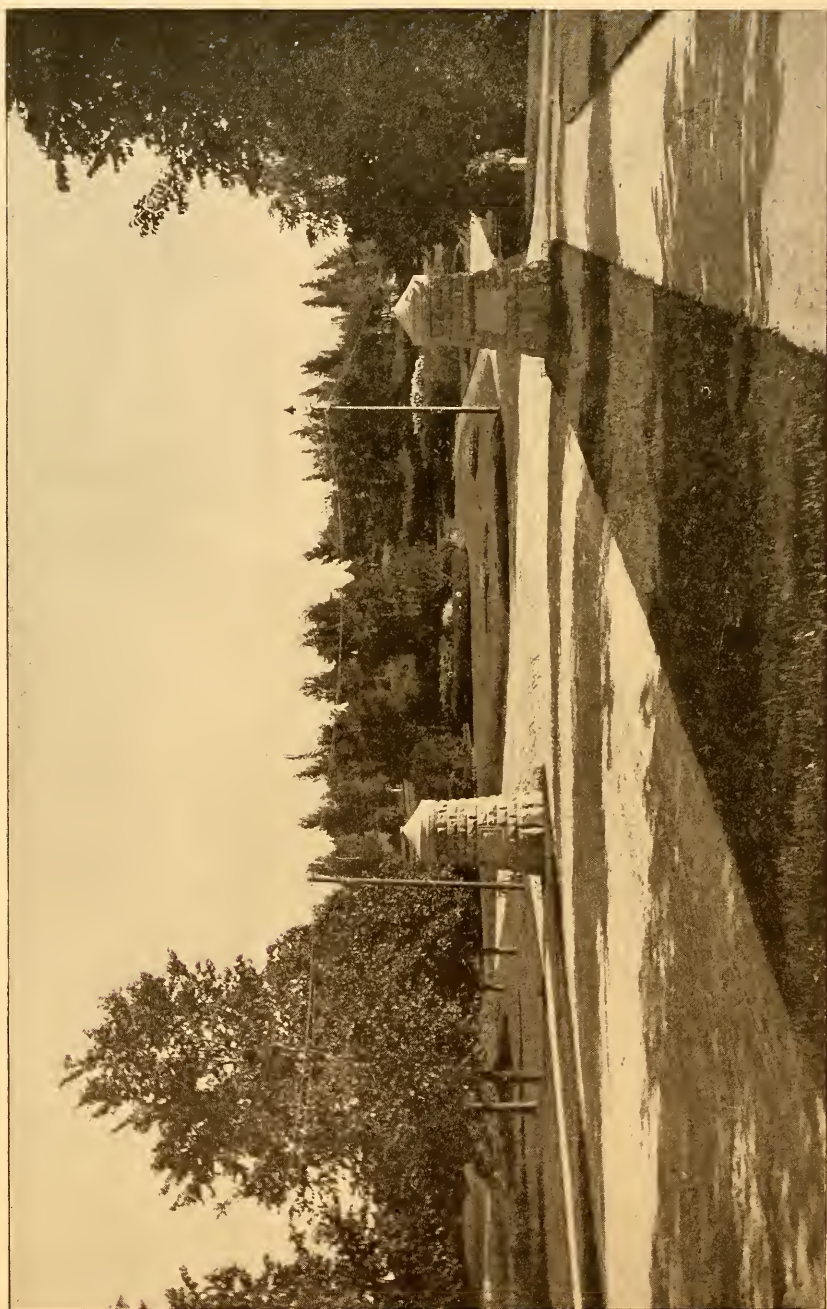
REPORT OF THE POLICE SIGNAL SERVICE, 1905-1906.

MONTHS	Number of Duty Calls	Number of Teleph. Calls	Number of Wagon Calls	Number of Prisoners	Number of Miles Traveled
June	38,712	3,137	254	285	268
July	40,283	3,585	270	307	323
August	38,596	3,095	302	348	353
September	38,865	3,188	364	405	411
October	41,559	3,292	347	429	407
November	40,365	3,179	241	270	281
December	40,231	3,261	233	258	290
January	42,732	3,283	299	347	348
February	37,960	2,892	209	235	258
March	41,409	3,151	232	268	254
April	40,154	3,060	251	299	284
May	39,830	3,236	298	310	320
Totals	480,696	38,359	3,280	3,761	3,797

REPORT OF BUREAU OF CRIMINAL INVESTIGATION, 1905-1906.

MONTHS	Arrests	VALUE OF PROPERTY.		
		Lost and stolen	Recovered	Still Missing
June	24	\$407 25	\$432 39	.....
July	20	\$767 11	\$536 00	\$231 11
August	20	\$471 75	\$195 00	\$276 75
September	19	1,345 50	\$308 24	\$1,037 26
October	31	\$405 15	\$1,278 00	.....
November	24	\$563 00	\$153 40	\$409 60
December	22	\$1,030 20	\$567 85	\$462 35
January	19	\$917 55	\$540 28	\$377 27
February	30	\$1,554 21	\$302 90	\$1,251 31
March	22	\$425 13	\$1,330 34	.....
April	24	\$429 52	\$202 76	\$216 76
May	20	\$358 00	\$298 57	\$59 49
Totals	275	\$8,674 37	\$6,145 67	\$2,528 70





ENTRANCE TO FORT HILL PARK

Third Annual Report

OF THE BOARD
OF

Park Commissioners

OF THE

CITY OF LOWELL

FOR THE

Year Ending December 31, 1905



LOWELL, MASS.
BUTTERFIELD PRINTING COMPANY.
1906

Department of Public Parks

Commissioners' Report for 1905

*To His Honor, the Mayor, and the City Council of the City
of Lowell, Massachusetts:*

As required by Chapter 28, Section 13 of the Revised Laws of Massachusetts, entitled "Public Parks, Playgrounds and the Public Domain", the Board of Park Commissioners of the City of Lowell have the honor to submit their third annual report.

Board of Park Commissioners

1905 - 1906

JOHN J. PICKMAN, 1903-1908.

JOHN E. DRURY, 1903-1907.

PERCY PARKER, 1903-1906.

*THALLES P. HALL, 1903-1906.

†HARVEY B. GREENE, 1904-1909.

* Successor not yet appointed.

† Re-appointed.

OFFICERS

Chairman,

JOHN J. PICKMAN.

Secretary,

JOHN E. DRURY.

General Superintendent,

CHARLES A. WHITTET.

Consulting Engineer,

GEORGE BOWERS, City Engineer.

Park Areas and their Valuation

The Rogers Fort Hill Park,	34.40 Acres,	\$150,000
The South Common,	22.48 “	200,000
The North Common,	11.39 “	100,000
Tyler Park,	1.81 “	8,000
Belvidere Park,	1.77 “	20,000
Mt. Vernon Park,	0.50 “	4,350
Varnum Park,	0.135 “	6,000
Monument Square,	0.092 “	15,000
Penniman Square,	0.023 “	200
Lincoln Square,	0.016 “	200
Oakland Square,		
Water Works Square,		
Total,	72.616 “	\$503,750

Report of the Park Commissioners of the City of Lowell for the Year 1905.

The third annual report of the Park Commission to the City Council of the City of Lowell is herewith presented.

The work that has been in progress upon the South Common was resumed early in the spring of the current year. The athletic grounds were graded, requiring a large amount of filling. The grounds were sub-drained, tiling being used for the purpose whereby a dry surface is ensured at all times. A running track was made and a baseball diamond was laid out. The mall on the north side of the Common was finished and a drinking fountain was erected near to the entrance from South street. Next year this entrance will be widened and curbed, and grass seed will be sown where the surface is bare or the grass is thin. The apparatus for the children's gymnasium on the playground adjoining the athletic field, that was ordered from the manufacturer early in the season, was not delivered until the fall, and it was deemed best by the Commission to defer setting up the apparatus until next spring. An out-of-door gymnasium will be an experiment in this city. At the outset the apparatus to be used will be of simple construction.

For two years the larger part of the sum set apart for work of a permanent nature has been expended on the South Common and it will be finished early next season.

The amount of the appropriation placed to the credit of the Park Department for the current year is \$12,554.

The amount of the appropriation for trees was \$1000, and the amount expended was \$999.97.

The amount of the appropriation for the removal of the nests of the brown tail moths was \$500. The amount that was expended was \$500.

NORTH COMMON

The work of grading on the North Common has been finished and next season grass seed will be sown where it is found to be necessary by reason of grading, or for other reasons. A mall will be laid out on the east side of the common similar to those that have been laid out on the South Common. This Common is adapted for baseball and other athletic sports, and work will be done to improve the conditions for the use of this Common for such sports.

FORT HILL PARK

The expenditure for work beyond the requirement for maintenance has been small. The iron pump in the porch has been removed and direct connection made with the water main that ensures a constant supply of good water. New curbing was put in at the main entrance to the Park.

TYLER PARK

When the plan of Tyler Park was made a rockery was included as one of the features, but it was not completed in pursuance of the plan. The work will be completed next season.

OAKLANDS

The parcel of land in the Oaklands given by Shepard & Fuller to the City for a Park has been graded and prepared for a flower bed.

There are many places in the City that by reason of their location, their nearness to flowing water, or from their contour, are admirably adapted for public Parks, and some of them may become such in the future growth of the City. At the request of the Commission photographs of some of these spaces have been taken by Mr. George H. Nelson of the engineer's department, and have been mounted and designated by him and have been put in convenient form to be seen at the office of the Commission. Some of these views appear in this report.

TREES

There were many applications to the Commission for the removal and the trimming of trees during the year. 137 trees were removed, chiefly for the reason that they were dead or decaying. On the 26th day of June, last, a wind storm caused many trees to fall and many trees were damaged to the extent that it was necessary to take them down or to trim them. The work of removal and the trimming occasioned by this storm required an expenditure of \$300. In the work of the removal of the trees and in guarding the streets that were impeded or made impassable by reason of the trees that fell, the Superintendent of the Street Department rendered prompt and valuable assistance.

A petition to the Commission was received, signed by many persons residing in Middlesex Village and in its vicinity, requesting that a hearing be given to investigate the cause of the death of a number of trees in Middlesex Village, near the premises owned or occupied by the petitioners. A hearing was given on the 21st day of September, last, at which a number of persons appeared and made statements relating to the subject matter of the petition that tended to show that the cause of the injury to the trees was gas that escaped from defective joints in the gas main in the street.

At a recent meeting of the Commission a vote was passed, instructing the City Solicitor to take the steps necessary to protect the interests of the city.

BROWN TAIL MOTHS

The City Council last year appropriated the sum of \$500 to be used by the Commission for the removal and destruction of the nests of brown tail moths. The work was begun January 3rd, 1905, and continued until April 15th, 1905. There were 31,628 nests removed and destroyed. The citizens whose premises were infested with the pests materially aided the Superintendent of Parks in the work of removal and the thanks of the public is due to the pupils of the public schools of the City for work done by them and the Superintendent of Schools, and to many of the teachers for their very successful efforts in enlisting the aid of the pupils in the work of saving the trees.

Mr. Whittet, the Superintendent of Parks, deserves great credit for his zeal and efficiency in this department of his labor this year.

The General Court of the Commonwealth for the current year passed an Act entitled, "An Act to provide for the suppressing of the gypsy and brown tail moths." By this Act the gypsy and brown tail moths are declared to be public nuisances, and cities and towns are given the power to appoint agents to destroy the nests of the moths and to enforce the removal of the same. The nests of the brown tail moths now infest many of the trees of the city, and speedy action should be taken by the proper authorities, under the provisions of the Act, to supply the means and agencies to cause their destruction. His Honor, the Mayor, has recently sent a communication to the City Council, requesting that an appropriation be made to provide for the removal of the nests of the moths in the trees in the public streets and in the parks and commons of the city.

CONCLUSION

A detailed statement of the receipts, expenditures and liabilities is herewith appended.

The report of the Superintendent is also presented herewith.

Respectfully submitted,

JOHN J. PICKMAN,
JOHN E. DRURY,
PERCY PARKER,
THALLES P. HALL,
HARVEY B. GREENE.



Views of Desirable Additions to our Park System

1. River bank at Pawtucket street, near Broadway.
2. Black brook at Baldwin and Westford streets.
3. Field west of Pawtucket canal near Pawtucket street.
4. Base-ball field at Lakeview avenue.
5. Indian Orchard path opposite bend in river.
6. Indian Orchard pine grove opposite Llewellyn street
7. Canal bank at Anne street.



RIVER BANK AT PAWTUCKET STREET, NEAR BROADWAY.



BLACK BROOK AT BALDWIN AND WESTFORD STREET.



FIELD WEST OF PAWTUCKET CANAL, NEAR PAWTUCKET STREET.



BASE-BALL FIELD AT LAKEVIEW AVENUE.



INDIAN ORCHARD PATH OPPOSITE BEND IN RIVER.



INDIAN ORCHARD PINE GROVE OPPOSITE LLEWELLYN STREET.



CANAL BANK AT ANNE STREET.

Financial Report

LOWELL, December 31, 1905.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

The Board of Park Commissioners has the honor to submit herewith the third annual report of the Park Department of the City for the fiscal year ending December 31st, 1905. In presenting to you this report we have given a statement of the receipts and expenditures for the fiscal year, the financial condition of the several appropriations, the Superintendent's report to this department of the work and labor done in the Parks of the city.

Original appropriation for labor	\$ 9,000.00
Expended for labor	8,999.92

Balance	\$.08
---------------	--------

Original appropriation for sundries	\$ 3,544.00
Received from appro. for Street Department	136.13
Received from appro. for Care of Trees	66.00
Received from appro. for Care of City Hall	13.04
Received from appro. for Public Buildings	12.13

Total for sundries	\$ 3,771.30
Expended for sundries	3,771.28

Balance	\$.02
---------------	--------

We received from the rental of lots on the South Common on July 4th the sum of \$1,120.00, which was paid into the General Treasury Fund of the City.

MAINTENANCE

NAME	LABOR	MATERIALS	LABOR	MATERIALS	TOTAL
North Common	\$ 451.83	\$ 9.06	\$1,248.53	\$ 45.34	\$1,754.76
South Common	738.25	46.42	2,367.22	869.58	4,021.47
Fort Hill Park	2,009.03	416.16	75.01	110.95	2,611.15
Belvidere Park	127.94	16.48			144.42
Tyler Park	104.83	12.01	5.00		121.84
Mount Vernon Park	52.75	5.40			58.15
Monument Square	32.67	28.74			61.41
City Hall	3.65	9.39			13.04
Memorial Hall	3.40	8.73			12.13
Oakland Square			22.25		22.25
Lincoln Square	6.05				6.05
Varnum Park	18.89	15.78			34.67
Penniman Square	2.49		86.00		88.49
Water Works Square	7.92	3.00			10.92
Barn	136.61	1,420.88			1,557.49
Workshop	169.53	428.18			597.71
Superintendent's Salary		-			
and Office Expenses	1,330.07	325.18			1,655.25
	<u>\$5,195.91</u>	<u>\$2,745.41</u>	<u>\$3,804.01</u>	<u>\$1,025.87</u>	<u>\$12,771.20</u>

BALANCE SHEET DECEMBER 30, 1905

Dr.		Cr.	
North Common	\$1,754.76	Appropriation	\$12,544.00
South Common	4,021.47	Sundry Receipts.....	227.30
Fort Hill Park	2,611.15		
Belvidere Park	144.42		
Tyler Park	121.84		
Mount Vernon	58.15		
Monument Square	61.41		
City Hall	13.04		
Memorial Hall	12.13		
Oakland Square	22.25		
Lincoln Square	6.05		
Varnum Park	34.67		
Penniman Square	88.49		
Water Works Square....	10.92		
Barn, Lenox street.....	1,557.49		
Workshop, Lenox street	597.71		
Supt.'s salary and			
Office expenses	1,655.25		
	\$12,771.20		
Balance	.10		
	\$12,771.30		
			\$12,771.30

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR

JANUARY.

To Whom	For What	Amount
E. P. Flanders & Co.	hardware	\$ 7.86
H. R. Barker Mfg. Co.	fittings	.14
Lowell Elec. Light Corp.	light	2.73
Dumas & Co.	office supplies	29.00
G. C. Prince & Son	postage stamps	2.00
C. B. Coburn Co.	benzine	.12
M. J. Cahill	shoeing	5.50

To Whom	For What	Amount
T. J. McDonald	corn and oats	28.34
John A. Lowell & Co.	half-tone plates	72.00
Peter Henderson & Co.	book	2.50
H. C. Kittredge	office supplies	4.90
Boutwell Bros.	wagon spring	3.51
Adams Hardware & Paint Co.	paint	2.35
J. C. Bennett	oil	2.00
Amasa Pratt Co.	lumber	32.22
Total		\$ 195.17

FEBRUARY.

To Whom	For What	Amount
C. B. Coburn Co. .	paint	\$.87
Sampson, Murdock & Co.	directory	3.00
G. C. Prince & Son	ink	.60
N. E. Tel. & Tel Co.	telephone	.20
Butterfield Printing Co.	printing	8.00
Adams & Co.	covering desk	1.25
Boston & Northern St. Ry. Co.	rent	12.50
H. L. Gonzales	saw filing	1.15
Lowell Elec. Light Corp.	light	1.67
American Express Co.	express	.25
Geo. W. Trull	hay	43.90
H. E. Noyes & Son	oats and corn	31.78
J. C. Bennett	paint and oils	26.46
E. P. Flanders & Co.	hardware	16.20
Joseph Mullin	hay	1.20
Pratt & Forrest	lumber	6.97
Total		\$ 156.00

MARCH.

To Whom	For What	Amount
Joseph Mullin	straw	\$ 14.38
C. B. Coburn Co.	twine	.40
Boutwell Bros.	cart shafts and iron	5.75
Boston & Northern St. Ry. Co.	rent	25.00
Lowell Shoe Repair Co.	repairing rubber boots	2.00

To Whom	For What	Amount
Doubleday, Page & Co.	subscription to Garden Magazine	1.00
Schlegel & Fottler Co.	seeds	4.20
Peter Henderson & Co.	cart and diggers	28.10
G. C. Prince & Son	postage stamps	20.00
N. Y., N. H. & H. R. R.	freight	.60
Lowell Elec. Light Corp.	light	1.09
M. J. Cahill	shoeing	1.25
Butterfield Printing Co.	printing	6.00
John J. Donnelly	shoeing	1.00
Lawler Printing Co.	printing reports	91.53
E. P. Flanders & Co.	hardware	2.41
	Total	\$ 204.71

APRIL.

To Whom	For What	Amount
Pratt & Forrest	lumber	\$ 47.40
Bonora Chemical Co.	fertilizer	4.00
E. P. Flanders & Co.	mowers and shovels	144.00
Amasa Pratt Co.	lumber	4.42
Boutwell Bros.	bolts	7.99
C. B. Coburn Co.	putty	.38
Robert Barris	axle grease and soap	.75
Dr. W. A. Sherman, V. S.	professional services	1.50
H. R. Barker Mfg. Co.	sharpening lawn mowers	17.65
J. H. Sparks	carriage hire	3.00
Lowell Elec. Light Corp.	light	1.28
M. J. Cahill	shoeing	5.75
John J. Donnelly	shoeing	5.30
J. H. Laporte	repairing harness	.85
Livingston Grain Co.	oats and corn	27.03
F. B. Hill & Co.	repairing teams	17.60
American Express Co.	express	1.35
	Total	\$ 290.25

MAY.

To Whom	For What	Amount
C. B. Coburn Co.	witch hazel	\$.80
N. E. Tel. & Tel. Co.	telephone	.28
E. P. Flanders & Co.	hardware and tools	4.75
American Express Co.	express	.40
Lowell Elec. Light Corp.	light	.97
John J. Donnelly	shoeing	2.65
Peter Henderson & Co.	lawn sprinkler	2.50
Geo. M. Foster	oats	21.14
W. A. Mack & Co.	water pail and dippers	.95
Adams Hardware & Paint Co.	paints and oils	16.25
Donovan Harness Co.	liniment and alcohol	1.75
Pratt & Forrest	lumber	10.98
G. C. Prince & Son	postage stamps	2.00
H. R. Barker Mfg. Co.	repairing lawn mower	2.00
Boston & Northern St. Ry. Co.	rent	12.50
M. J. Cahill	shoeing	1.15
Dr. W. A. Sherman, V. S.	professional services	3.00
J. H. Laporte	repairing harness	.35
R. J. Haight	subscription to Park & Cemetery & Landscape Gardening	1.00
Dumas & Co.	lettering	1.00
Bennett Bros. Co.	repairing pump at Fort Hill	
	Park	10.01
Remington Typewriter Co.	record book	\$ 12.70
Robertson & Co.	burlap	1.50
Daniel T. Sullivan	brick and sand	27.20
Joseph Peabody, Agt.	insurance	29.52
M. F. Conners	manure	25.17
P. Conroy	manure	11.80
Boutwell Bros.	tools	4.10
Edward Cawley	cement pipe	59.35
Geo. W. Trull	hay	45.80
C. H. Hanson & Co.	horse hire	30.00
John Carr & Sons	teaming	32.19
Edward Cawley	teaming	40.50

To Whom	For What	Amount
C. H. Hanson & Co.	teaming	24.00
P. P. Conners & Co.	teaming	58.13
C. Sullivan	teaming	10.00
Total		\$ 508.89

JUNE.

To Whom	For What	Amount
Boston & Northern St. Ry. Co.	rent	\$ 12.50
A. Parsons	sharpening tools	2.70
Union Iron Foundry	castings	24.76
Staples Bros.	tile	38.00
John J. Donnelly	shoeing	6.45
M. J. Cahill	shoeing	5.75
H. H. Wilder & Co.	fittings	.76
H. E. Noyes & Son	corn and oats	41.91
Lowell Water Works	water	11.97
Sewer Department	castings	11.07
C. H. Hanson & Co.	horse hire	96.55
Pratt & Forrest	lumber	21.89
Edward Cawley	cement	2.50
Boutwell Bros.	wheels and axles	80.16
E. P. Flanders & Co.	hardware	2.82
Donovan Harness Co.	horse collar and axle grease	6.50
Joseph Mullin	shorts	3.83
Total		\$ 370.12

JULY.

To Whom	For What	Amount
Hamilton Mfg. Co.	cinders	\$ 26.75
Pratt & Forrest	lumber	1.83
Fred A. Fox	hay	35.40
Farrell & Conaton	drinking fountain	60.00
Joseph Mullin	oats, corn and hay	71.10
C. B. Coburn Co.	oil and barrel	6.50
American Shoe Tap Mfg. Co.	scrap leather	5.33
Lowell Elec. Light Co.	light	1.93
John J. Donnelly	shoeing	8.80

To Whom	For What	Amount
Dr. W. A. Sherman, V. S.	professional services	1.50
P. Conlon	dirt	2.20
F. B. Hill & Co.	repairing team	1.45
E. P. Flanders & Co.	hardware and tools	22.45
Donovan Harness Co.	collars, pads, powders, etc.	21.50
C. H. Hanson & Co.	horse hire	17.00
H. E. Fletcher & Co.	curbing for F. H. Park	50.07
H. L. Gonzales	sharpening lawn mowers	17.15
Boston & Northern St. Ry. Co.	rent	12.50
J. H. Laporte	harness repairing	1.60
P. P. Connors & Co.	teaming	53.40
A. Parsons	sharpening tools	2.50
C. H. Hanson & Co.	horses	380.53
Whittet & Co.	plants	187.68
Total		\$ 989.17

AUGUST.

To Whom	For What	Amount
Greenwood Bros.	baskets	\$.90
Joseph Mullin	corn and oats	41.40
D. T. Sullivan	brick, sand and cement	20.65
Staples Bros. Co.	sewer grate	3.00
John J. Donnelly	shoeing	6.15
J. T. Williamson	repairing carts	15.45
Charles A. Whittet	expenses	1.99
Pratt & Forrest	grade stakes	5.39
Boston & Northern St. Ry. Co.	rent	12.50
Donovan Harness Co.	bridle and traces	2.50
M. J. Cahill	shoeing	2.25
Street Department	repairing cart	4.93
H. H. Wilder & Co.	pipng	83.78
Total		\$ 200.89

SEPTEMBER.

To Whom	For What	Amount
Lowell Water Works Dept.	water and laying main on South Common	\$ 47.34
Boston & Northern St. Ry. Co.	rent	12.50

To Whom	For What	Amount
H. R. Barker Mfg. Co.	repairing fence	4.34
Fred A. Fox	hay	45.70
Lowell Gas Light Co.	gas	.63
E. P. Flanders & Co.	grass seed and tools	17.20
D. T. Sullivan	cement	2.00
Donovan Harness Co.	repairing harnesses	7.50
John J. Donnelly	shoeing	6.20
M. J. Cahill	shoeing	4.00
G. C. Prince & Son	office supplies	2.00
Total		\$ 149.41

OCTOBER.

To Whom	For What	Amount
New England Optical Co.	seal grain album	\$ 2.50
E. P. Flanders & Co.	hardware and grass seed	11.48
Paul Vigeant & Co.	oats and corn	36.75
John J. Donnelly	shoeing	3.50
E. Bibeault	gravel	82.70
M. J. Cahill	shoeing	2.20
J. B. Cover & Co.	orchard grass seed	4.20
Smith & Lawrence	brush and ink	.65
G. C. Prince & Son	office supplies	3.90
Boston & Northern St. Ry. Co.	rent	12.50
Total		\$ 160.38

NOVEMBER.

To Whom	For What	Amount
A. N. Harmon	picture frames	\$ 6.05
George A. Nelson	photos and negatives	26.30
A. Parsons	sharpening picks	1.60
John J. Donnelly	shoeing	6.15
Lowell Elec. Light Co.	light	4.75
F. B. Hill & Co.	repairing team	2.25
J. H. Laporte	repairing harness	.95
Boston & Northern St. Ry. Co.	rent	25.00
Lowell Gas Light Co.	light	.81
T. J. McDonald	straw	10.82

To Whom	For What	Amount
Jos. Bowers	hay	46.20
Doubleday, Page & Co.	Sub. to Country Life	3.00
P. P. Connors	teaming	27.30
Pratt & Forrest	lumber	1.68
J. J. McManimon	bulbs	100.00
Catherine S. Hovey	stone roller	5.00
Livingston Grain Co.	oats and corn	35.75
	Total	\$ 303.61

DECEMBER.

To Whom	For What	Amount
O. D. Wilder	oats and corn	\$ 37.62
Colonial Press, Inc.	Sub. to Suburban Life	1.00
American Express	express	.25
G. C. Prince & Son	postage stamps	2.00
Doubleday, Page & Co.	Sub. to Garden Magazine	1.00
M. J. Cahill	shoeing	2.00
J. H. Sparks, V. S.	Vet. services	10.00
N. E. Tel. & Tel. Co.	telephone	.70
J. T. Williamson	iron work	9.90
C. H. Hanson & Co.	horse hire	4.00
C. B. Coburn Co.	glass and putty	15.46
Pratt & Forrest	lumber	15.75
H. C. Girard	hardware	14.18
Donovan Harness Co.	blankets and brushes	24.30
B. M. Hutchins	typewriting report	15.00
John J. Donnelly	shoeing	4.65
E. P. Flanders & Co.	hardware	.40
J. C. Bennett	paints and oils	28.14
Joseph Bowers	hay	39.20
Lowell Electric Light Co.	light	2.24
Tueke & Parker Co.	electrical work	14.89
	Total	\$ 242.68

LABOR AND SALARY PAY ROLL FROM JANUARY 1,
TO DECEMBER 31, 1905

January,	Pay Roll No.	1, 2, 3, 4,	\$ 356.68
February,	" "	" 5, 6, 7, 8,	299.41
March,	" "	" 9, 10, 11, 12,	275.12
April,	" "	" 13, 14, 15, 16, 17,	747.42
May,	" "	" 18, 19, 20, 21,	1,693.89
June,	" "	" 22, 23, 24, 25,	1,272.95
July,	" "	" 26, 27, 28, 29, 30,	1,388.53
August,	" "	" 31, 32, 33, 34,	679.46
September,	" "	" 35, 36, 37, 38, 39,	669.97
October,	" "	" 40, 41, 42, 43,	757.00
November,	" "	" 44, 45, 46, 47,	495.41
December,	" "	" 48, 49, 50, 51, 52,	363.68
Total			\$8,999.92

MONTHLY EXPENDITURES.

MATERIAL AND SUPPLIES.

January, ...	\$ 195.17
February, ...	156.00
March, ...	204.71
April, ...	290.25
May, ...	508.89
June, ...	370.12
July, ...	989.17
August, ...	200.89
September, ...	149.41
October, ...	160.38
November, ...	303.61
December	242.68
Total	\$3,771.28

Respectfully submitted,

JOHN E. DRURY, *Secretary.*



SOUTH COMMON — SHOWING PLAYGROUND

General Superintendent's Report

LOWELL, MASS., January 1, 1905.

TO THE PARK COMMISSIONERS.

Gentlemen:—

I have the honor to submit to you my third annual report, which gives a complete account of the work performed by the Park Department under the direction of your Board during the past fiscal year, ending December 31st, 1905, including a few comments and suggestions which I hope will not be considered inappropriate.

We began the 1st of January with an appropriation of \$12,544.00 to our credit for labor and sundries. We have expended for labor \$8,999.92, and for general expenses \$3,771.28. We have received from Mr. Jacob Rogers a donation of a beautiful ornamental fountain, which will be placed in one of the parks in the spring.

It is interesting and instructive to consider broadly the subject of our parks. We have an area of about twelve and one-quarter square miles, less than 8000 acres, within the limits of our city, a population of 94,845 inhabitants, property of an assessed valuation of \$71,632,643.00, and have 72 1-2 acres devoted to parks and squares; our public debt is estimated at \$3,479,680.00 or about \$36.68 per capita, and there has been expended on our parks during the last six years \$82,732.04, an average of about \$13,788.00 or about 14 1-2 cents per capita annually. A glance at the expenditure for parks in Lowell shows them to have been of modest proportions in comparison with those of some cities, where wealth is less, and in some cases whose tax rate has been heavier.

Mr. Parker, of Hartford, Conn., estimates that the parks require ordinarily \$2,000 per acre for improvements to adapt them to a proper condition for popular enjoyment, and an annual outlay of sixty cents per capita for their maintenance. The cost of improvements of the parks and squares included in his census varied from \$50.00 to \$24,000 per acre. As no two parks are identical in their natural characteristics no exact rule can be used for universal application, yet we can form some idea as to what sums other cities have deemed reasonable as expenditures for improvement. He says, "If income per capita is a little over a cent a week, that is sixty cents a year, then the income from 200 people is \$120, which is a good average amount for maintaining an acre of parks without policing or lighting. Then, also, if the cost of construction is \$2,000 per acre, and it costs that to do thorough work, the amount of bonds sold would be \$10 per capita, not a burdensome or unusual amount."

It is my opinion that the annual appropriation for the use of this department should be sufficiently large, so that the work of developing and improving our parks could be carried on each year on well defined lines, each year's work to have its greatest value shown upon the completion of the general scheme of improvement.

To improve our parks, according to Messrs. Olmsted Bros.' plans, necessitates a large expenditure of money. To undertake to complete them in one year by a single appropriation would be unreasonable, and yet I would suggest a method which will permit this Board to adopt a plan for successive improvements without material increase of the tax rate.

If we were to have 1-4 of a mill on the assessed valuation of the city it would give us about \$18,000.00; of this sum we could devote \$8,500.00 to maintenance, and \$9,500.00 to improvements. Nearly all the large cities exceed these figures, but many of the smaller cities do not come up to them.

Lowell is a city to be justly proud of. Its population is essentially a working one, fully 60 per cent. being actively employed in the factories, shops and stores.

“If we would love our city we must make our city lovely,” and when we make our city lovely we make citizenship more desirable and more worthy.

The advantages of our parks and playgrounds may and should be more generally considered and discussed by the great mass of our people. Let our merchants visit our parks more frequently with their families, and as they drive or walk through the gravelled ways consider also that the home labor which finds employment is giving enhanced value to the city's property, and bringing joy and health to many whose life would otherwise be under a constant shadow of gloom and discontent.

Are parks a necessity or are they a luxury? The wealthy cities have them, the poorer do not, but if there is any place where parks and playgrounds are needed it is among the laboring classes. No child should be required to go far to reach its playground; no city does its full duty to its children which provides only pavements for them to play on, and leaves them walls to look at.

Mr. Jacob A. Riis in his book, “The Battle with the Slums,” says: Every park, every playground, every bath-house, is a nail in the coffin of the slum, and every big, beautiful schoolhouse, built for the people's use, not merely to lock the children up in during certain hours for which the teachers collect pay, is a pole rammed right through the heart of it so even its ghost shall never walk again.

Mr. Warren H. Manning, of Boston, in a paper presented at the convention of the American Civic Association said, “More people and more generations of people may gain a mental, moral and physical uplift from the living picture of a really beautiful landscape with its never ending change with the procession of the seasons, than from any landscape upon canvas, in no respect would I belittle the work of the true artist. He who has the power to place upon canvas the brief periods of supreme beauty that every student of nature would like to preserve speaks so commanding a note that the average man is compelled to stop and listen, even though he does

not understand. We need more teachers who are competent to teach, and such teachers are rapidly developing, more disciples of outdoor art who will look beyond the pretty flower bed and the next yard to the permanent improvement of their cities on broader lines and who will set about to acquire the fine trees, the beautiful passages of landscape that will fit our broader scheme. I would place emphasis upon the fact that those who would enduringly improve their city must do more than encourage the planting of trees and cleaning yards; they must help to educate public sentiment in the right way."

One important purpose of parks is to provide, for those who have not the time or the money to go away from the city, a place where they can get a mental rest from the constant urgent demands which are inevitable in modern city life. Fifty years ago a city park was not a necessity; now it is.

The time is coming when every city will have its park as it has its schools or its water supplies, or its sanitary regulations; but before this comes about, new types of parks must come into existence, parks that shall be adapted to one kind of people and one kind of social and economic conditions, and others that shall be adapted to other circumstances.

We should no more expect one type of park to suit all conditions than we should expect one type of school or church or government to suit all. We must develop the park that shall be democratic as well as public and that shall appeal to whatever type of people constitutes the community.

In the creation of a public park one of the considerations involved is the health and physical welfare of the people. This applies particularly to city parks and is perhaps the most important and most familiar consideration in large and growing communities. It was the leading reason for the creation of the many small parks in large cities. Another consideration is the uplifting moral effect of the contemplation of those objects which strikingly turn one's thoughts to the Creator. The poet, Emerson, under the spell of nature, declares that "Nature is loved by what is best in us. It is loved as the city

of God.” And Lord Kelvin, the great scientist who studies the action of natural forces, notes the tendency of his fellows to refer the operations of nature back to a first and directing cause, and admits that they are “compelled to accept the idea of a Creative Power.” “If you think strongly enough you will be forced by science to the belief in God which is the foundation of all religion. You will find science not antagonistic, but helpful to religion.”

Every city should have numerous open spaces distributed throughout its area, and particularly in thickly populated districts; so that there may be a convenient oasis, for pure air and bright sunshine, and grateful shade for rest and recreation. Parks proper should be at various convenient points in the outer portions of the city, and be sufficiently large in area to permit any inhabitant any day to find an inviting secluded place within their borders. A park must be healthful. Good drainage, an abundance of pure drinking water and shade are absolutely necessary. The advantages of public parks are many; but the greatest is their healthful, healing influence, whether applied to the wearied minds and bodies of those whose places of daily life and toil are surrounded or affected by monotonous, heated, brick walls and stone pavements, or to their soothing, helpful effects upon weak, nervous and unhappy invalids and delicate children. To maintain the health of the former, and restore to health the latter, are the paramount purposes of parks. Cool, inviting shades and clear, still, or whispering waters; pure air, bright sunshine, and pastoral scenery are not only nature’s healing balms for bodily and mental afflictions, but they lead the appreciative mind and heart gently on, step by step, to the great lovable truth.

Teach the children the names and uses of nature’s gifts about them; point them to the trees, birds, herbage and flowers; tell them the name and habits of each, and you will have sown the seeds for something ennobling in their hearts that will never be forgotten.

THE ROGERS FORT HILL PARK

The usual care to keep this park up to its accustomed condition has been bestowed upon it the past season, and its appearance has in no way lost its attractiveness. Some few changes and additions have been made, which improve the park and contribute to its usefulness and to the enjoyment of the public. The attendance has been much larger than ever before, and there seems to be a disposition by the people to make this park the object of their spare hours' pilgrimages more and more. Each year the sentiment in favor of it, not only by our own people but also people from other cities and towns who are acquainted with the park, its beauty and attractiveness, is manifested in larger numbers and on more frequent occasions. It is gratifying to the Board to know that their efforts are being steadily and rapidly appreciated. A new curbing has been placed at the entrance to this park which adds to its appearance. A shelter and public comfort building should be provided on this park. No more urgent necessity exists here. Frequently visitors, and in particular children, are drenched by sudden and unexpected showers, as there is no suitable building in which to seek shelter. The land on the west side of the park should be accrued and laid out for all kinds of games and athletic sports, and I have no hesitation in most emphatically suggesting and urging the importance of this step. No better investment or outlay for this park can be made, and the wishes of the hundreds who enjoy and engage in sports should be favorably considered. Encouragement should be given to such projects, as they are important factors and provide the utmost satisfaction to a very large proportion of our people, especially the operatives in our mills who resort there Saturday afternoons—the only opportunity they have during the week—and enjoy greatly healthful and rational recreation.

The working force of the park are trusty employes, who seem to have the interest of the department at heart and are worthy of all the consideration they receive.

BELVIDERE PARK

The labor performed upon this park was about the same and of similar nature as in previous years, mostly in properly caring for the grounds. In this, as in the other parks of the city, a great many improvements could be made and some should be. The walk from Nesmith street to Park street, which is in bad shape, should be straightened and relaid.

VARNUM PARK

This park required only ordinary maintenance care.

MT. VERNON PARK

This park is in a very fair condition and can be kept in such for some time to come within a reasonable allowance. Only ordinary maintenance care was given it during the past year.

WATER WORKS SQUARE

This square has been kept in a neat condition, with a large flower bed in the centre, which is greatly enjoyed by the residents of that vicinity. I would suggest that it be curbed, properly graded and sown, the unsightly electric light pole in the middle of it should be done away with and a neat and shapely one should be substituted for it.

OAKLAND SQUARE

This square is the smallest piece of property in the control of the Park Board. It is located at the intersection of Butman Road, Holyrood avenue and Hovey street. It is a triangular strip of ground and was deeded to the City of Lowell for a public square in 1904, by Jesse H. Shepard and Henry C. Fuller. It was graded and put into good shape this fall, and it adds very much to the appearance of the neighborhood and is highly appreciated by the residents of that vicinity.

PENNIMAN SQUARE

This square has been entirely overhauled during the fall, several trees have been removed and the curbing has been removed to the outside of what was formerly the sidewalk, with a flower bed in the centre and a well kept lawn it will be a very attractive spot. It would improve the looks of the city very much if many more triangles were located in different sections.

LINCOLN SQUARE

This square has been kept in the very best condition this year, the hedge of *Berberis Thunbergii* planted last year has grown well and has improved the looks very much.

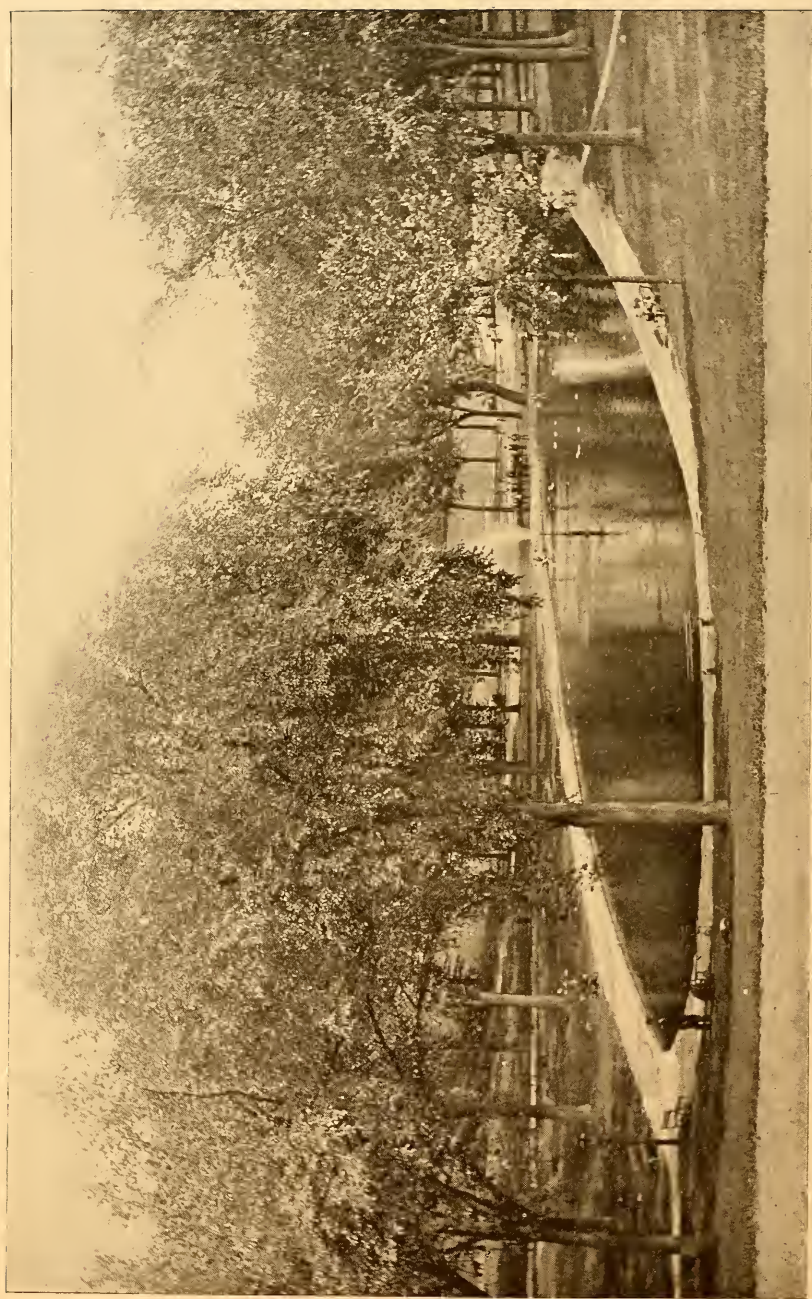
MONUMENT SQUARE

This square is located in the most prominent part of the city; while it has been kept in its usual good condition I would strongly recommend that the old fence now surrounding it be removed, as it is in a very bad condition and any money expended for repairs is a waste of money. I would recommend that a new fence be placed around the lot, the lot regraded and the two trees now in the lot be removed. This square should be made the handsomest in the city.

TYLER PARK

This park has been maintained in its usual condition. A great many improvements could be made here. It is in need of ploughing, seasoning, grading and seeding in some of the unproductive sections. A considerable sum of money can be spent here to good advantage in needed improvements. What the park needs to give it the interesting character which it was intended to have are the following: 1. The planting of trees at the westerly end around and beyond the playground circle. 2. The completion and support of the central feature by proper grading and planting substantially as planned. 3. The planting of shrubbery and small flowering trees enclosing the park and enriching it, and supplementing the meagre sprout growth of existing trees by underplanting, all of which involves as a preliminary or accompaniment the proper preparation and enrichment of the soil. 4. The enclosure of the park by a low parapet wall as planned. All these things are necessary to the realization of the design as planned by Mr. Charles Eliot and recommended by Messrs. Olmsted Bros.





SOUTH COMMON — SHOWING POND

SOUTH COMMON

The South Common has been greatly improved and beautified during the past season, and as a place of pleasure and pure delight the multitudes who visit it and enjoy its well kept condition attest. The Common cannot be classed in the same rank as the other parks of the city. It is one of a distinct class of public grounds which should be found in every city, and is found in most cities. The mall on the Summer street side has been completed to Thorndike street; and to provide better facilities for regular baseball games and for games and exercises the loam was stripped from about two acres of ground on the lower end of the Common near to the corner of South street. The concrete path which formerly ran through the ball field has been discontinued and several trees removed, and to give the field adequate drainage nearly 1000 feet of common agriculture tile was laid some 3 or 4 feet under the surface of the ball field, the ground has been filled in from 6 inches to 4 feet in the deepest places and graded systematically to pitch toward proper drain inlets so located as not to interfere with the ball. Some idea of the amount of land that has been filled in and graded can be gleaned from the fact that a cinder track which surrounds the field is six laps to the mile. On the Summer-street side of the ball field and hugging the bank is a 100-yard dash. A new drinking fountain has been placed near to the South-street entrance to the Common. A sanitary building is badly needed on this Common, and I trust that you will give this matter your careful attention.

NORTH COMMON

On this Common a large amount of work has been done during the past season; the loam has been removed from the low portions of the Common and the hollow places have been filled in with dirt; the filling ranged from 2 inches to 3 feet. After filling in these low places we have topped off with loam; in all 8000 loads of filling was used. Here the chief need is the provision of adequate drainage, and the proper shaping and surfacing of the ground; also the top dressing of the concrete walks, some of which are in very bad shape.

ATHLETIC APPARATUS AND PLAYGROUNDS

Original Appropriation	\$500.00
Expended:	
Narragansett Machine Co.	\$198.75
N. Y., N. H. & H. R. R. Freight	3.16
	201.91
Balance	
	\$298.09

The apparatus was ordered in the early part of July, soon after the appropriation was made, but it did not arrive until September. The schools were opened when the apparatus arrived, and it was decided that it would be the best to keep it indoors for the winter. It will be put in place in the early spring.

The playgrounds have come to stay. By no other method can we more surely breed good citizens, nor by its neglect suffer more in the paupers and criminals who fill our almshouses and jails, a menace to stable society and a grievous burden to the state.

I hope that public-spirited persons will bear in mind that there is no gift to the city of greater use and enjoyment, with more lasting honor to the name of the donor, than a public playground. It should also be said that no public money is more profitably invested than that spent for playgrounds, even when costly land in a densely populated district has to be taken. Play is essential

to the healthy development of children and youth. The future of the growing generation depends upon it. Playgrounds save children from evil influences and criminal associations. If we would consider the waste and destruction represented by every person who resorts to vice and crime, we may gain some idea of the economical returns from playground investments in promoting social welfare and averting evils otherwise inevitable. The Manufacturer's Association of Brooklyn, N. Y., at its November meeting says: We believe that the providing of opportunity for unrestricted play upon the part of children and its encouragement is an important duty of the public authorities, and therefore recommends and urges that playgrounds for children be provided in connection with all city parks, and that use as such be encouraged by the city authorities.

CONCLUSION

In closing my report I wish to express to the members of the Board of Park Commissioners my fullest appreciation for their support and their good-will, and wish to thank my assistants of the department for the efficient services rendered, making it possible to accomplish all that has been done.

Respectfully submitted,

CHARLES A. WHITTET,

General Superintendent.

LOWELL, December 31, 1905.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks, of the appropriation for the Care of Trees, from January 1, 1905, to December 31, 1905.

Original appropriation	\$1,000.00
Expended for labor and teaming	\$902.65
Expended for supplies	97.32
	999.97

Balance unexpended	\$	.03
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LABOR PAY ROLL FROM JANUARY 1, TO
JANUARY 1, 1905

February,	Pay roll No. 1,	\$ 5.75
April,	" " " 2, 3,	22.38
May,	" " " 4,	17.28
June,	" " " 5,	9.19
July,	" " " 6, 7, 8, 9,	270.65
August,	" " " 10, 11, 12, 13, 14,	182.87
September,	" " " 15, 16, 17, 18, 19,	177.42
November,	" " " 20, 21, 22,	105.44
December,	" " " 23, 24,	45.67
	Total	
		\$ 836.65

TO WHOM AND FOR WHAT MONEY WAS PAID
OUT DURING THE YEAR
FOR THE CARE OF TREES.

JUNE.

To Whom	For What	Amount
H. L. Gonzales	sharpening saws	\$ 3.50
	Total	
		\$ 3.50

JULY.

To Whom	For What	Amount
J. C. Bennett	rope	\$ 7.15
E. P. Flanders & Co.	axes	16.20
H. L. Gonzales	sharpening saws	5.30
C. B. Coburn Co.	rope and glass	5.90
F. B. Hill & Co.	repairing jigger	5.35
	Total	\$ 39.90

AUGUST.

To Whom	For What	Amount
Charles A. Whittet	railway expenses	\$ 12.41
Butterfield Printing Co.	printed postals	3.25
H. L. Gonzales	sharpening saws	1.75
	Total	\$ 17.41

SEPTEMBER.

To Whom	For What	Amount
Park Department	team hire	\$ 41.00
H. L. Gonzales	sharpening saws	2.25
	Total	\$ 43.25

NOVEMBER.

To Whom	For What	Amount
Park Department	team hire	\$ 25.00
A. Parsons	sharpening grubs and re- pairing chain	2.16
E. P. Flanders & Co.	steel blocks	14.70
H. L. Gonzales	sharpening saws	1.75
	Total	\$ 43.61

DECEMBER.

To Whom	For What	Amount
J. C. Bennett	ladders and rope	\$ 15.65
	Total	\$ 15.65

MONTHLY EXPENDITURES

LABOR AND SUPPLIES.

February, ...	\$ 5.75
April, ...	22.38
May, ...	17.28
June, ...	12.69
July, ...	310.55
August, ...	200.28
September, ...	220.67
November, ...	149.05
December, ...	61.32
Total	\$ 999.97

Respectfully submitted,

JOHN E. DRURY, *Secretary.*



SUMMARY OF MOTH ACCOUNT

Original Appropriation	\$ 500.00	
Received from sundry individuals for work on private property, ...	115.55	\$ 615.55
Paid sundry individuals for Labor, ...	\$ 496.90	
Paid for tools and supplies, ...	31.23	
Paid for advertising, ...	87.42	\$ 615.55

TO WHOM AND FOR WHAT MONEY WAS PAID

Labor as per pay rolls on file	\$ 496.90	
Material and Supplies:		
Grant Jewelry Co., Field glasses	23.00	
Golding Mfg. Co., Electrotypes for adv.	2.08	
E. P. Flanders & Co., Hardware	4.55	
G. C. Prince & Co., Postage and Stationery	1.60	
Advertising:		
Courier-Citizen Co.	24.00	
Lowell Sun	25.92	
Saturday Free Press	6.00	
Sunday Telegram	15.00	
The L'Etoile	4.50	
The Lowell Daily Mail	12.00	\$ 615.55

Respectfully submitted.

JOHN E. DRURY, *Secretary.*

SHADE TREES

Lowell is a beautiful city, fortunate in location, broad in extent, varied in surface, salubrious in climate, rich in homes and institutions, intelligent and refined in her citizens. What is to hinder her being the most beautiful city of her size in the country. One thing is painfully wanting—that is, a system of arboriculture commensurate with her other attractions. The trees now in the streets are, to a great extent, creatures of chance, with little taste in selection and less care in planting, and in a great majority of cases wholly neglected. It is no wonder we find them in their present condition. Many of them are too thickly set, leaning, deformed, bruised, gnarled, partly dead, untrimmed, broken, limbs that are in the way roughly cut off, leaving ugly stubs, allowed to head too low and then trimmed up high after they are too mature to regain their natural form and grace, and so on to the end of the list of ills. It is not just to say there are no beautiful trees in Lowell, but it is safe to assert that a well-developed, graceful tree is the exception, and that these exceptions are by far too few.

That a stimulus may be given to arboriculture it is desirable that the people make a study of trees. In passing through the streets let them take notice of the trees—consider the points of beauty and deformity—whether they are too many or too few, which ones could be removed with advantage, where new ones should be placed, what varieties would be best suited to certain localities and so on. In passing small parks and detached residences where trees and shrubbery are used, let them examine the varieties and arrangement, see which would improve appearance by removal, where additions could be made, and what should be added. By

careful attention of this kind, an improved taste would develop, a more lively sense of the importance of the study of arboriculture would be obtained, and a readiness to help the work along would result.

To whom do the trees belong. Some are the property of the city, some of those on whose premises they stand, some partly of the city and partly of the abutters.

In another sense they belong to the public. All enjoy their beauty, their cool shade in summer, their healthful influence upon the air and their partial protection from wind and storm. In so much they are common property. In return for the right to enjoy the pleasures and benefits of trees, people should assist in protecting them from injury.

Nothing within our power to control adds more to the attractiveness of our city than its shade trees. It would be easy to demonstrate that from the financial standpoint alone money invested rightly in the planting and care of trees will add more to the value of real estate than any other improvement.

Take two blocks in all respects alike, except that one has trees well selected, set at suitable distance apart and well cared for; the other with no trees, or with trees carelessly set and neglected, as frequently happens. A person wishing to purchase a residence would be likely to choose the one having fine trees, although he may be required to pay more in addition than many times the cost of the trees; and when the houses are all occupied it will be more than likely the block having fine trees will have people of better culture, and hence more desirable for neighbors. Thus, from a financial standpoint, trees pay.

To secure the most satisfactory results requires judgment and some skill in the selection, placing and care of the trees. Trees should be selected with reference to the locality, the quality of the soil, the extent of space and circumstances of surroundings in general. Large growing varieties should be selected for places of large extent, smaller varieties for places of less extent. A low, compact tree is not desirable for street planting.

Sometimes it is difficult to decide what variety is best suited to a place. Careful attention will enable one to make a good selection.

A good rule to follow in planting trees is,—Deal only with responsible parties, pay good prices and demand good services. No one should be employed to purchase or plant a tree who does not understand the business. A mistake made at the planting lasts during the life of a tree.

The ground where a tree is to be set should be examined to see whether it is suitable for tree growth. If it is not, the poor earth should be removed and good soil substituted. The amount to be removed depends upon circumstances, and can be determined by examination. A tree to flourish must have plenty of good ground in which to grow. It should be good to the depth of three feet and an equal distance in all directions from the trunk when practicable.

Trees should be placed so far from one another that at maturity they will not meet. Such distances will enable them to develop in their natural beauty, give them sufficient space to be vigorous, allow the sun to shine on the ground under and between them a portion of every sunny day, driving away malaria and enabling grass to grow and so increase healthfulness and beauty. Trees planted at such distances allow architecture to show to better advantage and present the pleasing combination of sunshine and shadow on the ground. To determine the distance to intervene, measure the spread of full-grown trees of the same varieties as those to be planted, and let this measurement be taken. It will vary from thirty to eighty feet. Trees should alternate on opposite sides of the street.

How can a street be beautified? Principally by trees and turf at the sides, and by keeping away the tree butcher. We want trees as they naturally grow, not monstrosities. Upon streets the under branches must be removed so as to allow one to pass with an umbrella. Dead or dying branches must be cut out, and when living branches cross or interfere one should be removed.

Sometimes additional pruning is necessary to give the tree a symmetrical head, and, while young, to prevent the formation of a low crotch; but more than this should not be permitted. Trees should be uniform in size, and all of the same kind in each block or square. If the street is broad, affording good opportunities for protection, they should stand between the curbing and the sidewalk.

That street trees were appreciated in the earliest days is evinced by the action of a town meeting in Watertown, Massachusetts, in 1637, which passed a vote "to mark the shade trees by the roadside with a W and fining any person who shall fell one of the trees thus marked 18 shillings." That this interest was continuous is made evident by the age of existing homestead and roadside trees, very many of which are between one hundred and two hundred years old.

To beautify our streets let the residents of every block or square organize a club of those living on it, and, after mature deliberation, agree as to what should be done, determine what trees should be saved and what ones should be removed, and then have them trimmed and guards placed around those worth saving, remove the sickly, injured or deformed ones and plant new ones when desired. All the residents should feel that they have an interest in every tree.

Every one should be willing to sacrifice individual interest for general welfare. People would say of trees thus planted not "my trees" but "our trees," a sense of common property, a common interest, a common guardianship would prevail. It may be said that such a result cannot be obtained. Perhaps not at first, but after a little while personal likes will give way to general good. The trees on the block or square should be planted by the club and the expense assessed on the residents or furnished by subscription. The pride of possession is deeply seated in human nature. One cares for his own as he would not care for that of another. The disposition to have and to do already exists. The knowledge of

what to do and how to do it is the only thing wanting. It appears to me the legitimate work of a club of this kind would be to supply this want where it exists. We have no power to enforce; we can only persuade. People are desirous of learning when they are convinced they have a competent instructor. If a club of this kind gathers within its membership those citizens who have refined taste and a knowledge of arboriculture and horticulture, and if it demonstrate to the satisfaction of the people that such is the case, and, moreover, if it be careful that nothing shall emanate from this club, with its sanction, but such ideas as shall have stood the test of examination by good judges and have been approved by them, then people will receive with thankfulness whatever the club may promulgate. When this condition is reached the era of progress will begin, and then we may with confidence look forward to a time when with a proper distribution of trees, shrubbery, flowers and lawns the City of Lowell will be radiant with a new glory. To obtain this result should be the work of this club. I would have every tree an object of beauty, every court-yard and garden radiant with shrub and flower and lawn. What a bond of sympathy would exist among the citizens, and with what pleasure then would we pass through the streets, and with what satisfaction would we admire one another's handiwork. Let us all unite in beautifying and making more comfortable and more healthful our beloved city. Let us call into requisition the highest taste and the best execution and confidently expect corresponding results. With agreement in sentiment and harmony in action this generation may bequeath this city to the next a veritable park—the pride of those who made it and the joy of those who inherit it.



DEAD TREES MIDDLESEX VILLAGE. THE EFFECT OF ESCAPING GAS.

INJURIES TO SHADE TREES

*Shade trees have many adverse conditions to contend with, which are becoming more numerous each year, and are likely to increase with the development of our cities and towns along present lines. Many of these difficulties can be obviated if attention is given to their care and normal conditions of growth. Others, however, are not so readily disposed of and hence the trees must frequently suffer.

Some of the detrimental factors are the following:

Interference with soil moisture and root respiration by paved and macadamized roads and sidewalks.

Destruction of the root system by excavations for buildings, sewers, water, gas and steam pipes.

Interference of the root system by earth fillings and regradings.

Abnormal physical and chemical conditions of soil made up of refuse material, and of unsuitable soil texture causing an insufficiency or over supply of soil moisture.

Effects of soil covers as effecting water supply, etc.

Injuries arising from horses' teeth, abrasions from teams, etc.

Effects of exposure to various obnoxious atmospheric gases and smoke.

Lack of aseptic and antiseptic treatment in cases of wounds arising from accidental or intentional pruning, or from injuries from horses' teeth, abrasions from teams, etc.

Interference to tree growth by telephone wires.

Electrical injuries due to contact with alternating and direct current wires.

Injuries due to leaks in gas mains, steam conduits, etc.

* From the report of Geo. E. Stone, Ph. D., of Massachusetts Agricultural College.

These factors, singly or in combination, constitute a menace to trees, and it is only by an understanding of the effects that we can comprehend their importance as agencies detrimental to tree development, and obtain a rational conception of the aetiology of disease. Some of these factors are so detrimental to tree development that the largest species will succumb in a relatively short time. In most cases, however, trees subject to adverse conditions linger along in a state of malaise or weak condition, thereby easily falling a prey to parasites.

The insects which kill or injure our shade trees the most are the Tussock moth, forest tent caterpillar, maple tree scale, gypsy and brown tail moths. The Tussock moth is a native of North America. It attacks almost every variety of shade, fruit, and ornamental trees, with the exception of the conifers. This insect passes the winter in the egg state. The overwintering eggs are laid by the female moth in the latter part of September, in a glistening white, frothy-looking mass attached to the outside of the cocoon. They are seen at a glance, owing to their pure white color, and remain conspicuous upon the trees until spring. They cast their skin five times. The newly hatched young feed on the under surface of the leaf, eating off the parenchyma and producing a skeletonized appearance.

The most efficient remedy for the Maple Tree Scale is spraying with a ten per cent. solution of kerosene emulsion applied, if in summer, just after the eggs have hatched. At this time the insect is in its weakest state of existence. It is better, however, to spray in the fall when it is easier to reach all parts of the tree. A fifty per cent. solution may then be used.

But the greatest insect war ever known is the battle that is being waged against the gypsy moth in the State of Massachusetts. The whole trouble, which has caused the expenditure of hundreds of thousands of dollars and years of labor, arose from a handful of eggs blown into some grass by a puff of wind.

Some thirty years ago, a French artist and naturalist, Leopold Trouvelot, lived in Medford, Mass. He was studying the habits of the native birds and insects, and was experimenting with silkworms. One day he received by post a cluster of the eggs of the gypsy moth from a friend in Europe, which he placed on a table near an open window. A passing puff of wind blew the eggs into the grass outside.

Trouvelot did not miss them, or remember them, until, a year later, he discovered a number of young gypsy caterpillars—hairy, gray creepers, speckled with red and blue. He attempted to stamp the colony out of existence, but finding, the next season, that they were more numerous, he gave public warning of what had happened, and advised the community to be on the watch. His warning was regarded as the vamping of a half-crazy collector of bugs.

Trouvelot left for Paris, and for some time nothing more was thought of the gypsy moth, though a few people noticed that near the old Trouvelot home caterpillars were plentiful and that they did some damage to foliage. From 1869 to 1889 the parent colony was extending its territory, and wherever it went trees were defoliated. The damage was placed to any account but the real one, generally to the charge of the well-known canker worm, or to the tent-caterpillar. At last, in 1889, a season arrived when the gypsy caterpillars and moths had so greatly increased in numbers that their food supply gave out. Armies appeared in districts where they had never been known before, and destroyed every green thing. Passing from tree to tree the hungry host swarmed over all the country. Such in brief is the history of the gypsy moth. Recently at Sixth and Bridge streets, Centralville, a gypsy moth nest was found and quickly put out of commission. This pest is the worst of them all. Fortunately, this department has found no other evidences of the moth in the city. As I gave a history of the Brown-tail Moth in my report of last year I do not think it necessary to repeat it in this one.

BROWN-TAIL MOTHS

March 18th. The caterpillars begin to leave nests, and commence eating.

June 10th. Commence to spin cocoons and pupate.

July 1st. The white moths, with a brown tail, commence to emerge from the pupal stage, and soon begin to lay eggs. The eggs hatch in from 15 to 20 days.

July 20th. They begin to feed about this time, and feed for about six weeks.

September 1st. They begin to form their winter nests.

GYPSY MOTHS

April 30th. Egg-clusters commence to hatch, and caterpillars begin to feed about this time.

July 15th. They commence to pupate about this time.

July 25th. The moths commence to appear, and soon commence laying egg-clusters.

Last December the city government appropriated the sum of \$500.00 for the destruction of the brown-tail moths. We went to work and during the winter we destroyed by actual count 31,628 moth nests. The Middlesex Women's Club also took a hand in the work; every land owner was warned that it was to his own advantage to destroy the nests. The people of Lowell were so fully aware of the danger that they responded at once, and Lowell suffered hardly any from them, the amount received from individuals being \$115.55.

In the early part of the year the city government appropriated the sum of \$1,000.00 for the care of trees. In addition to performing a vast amount of trimming at the requests of numerous individuals, we have removed from the streets 137 trees which were dead, or so nearly so that their removal was advantageous.

During the past year 30 beautiful and stately elms and maples which had been carefully watched and nursed by the residents of Middlesex Village were killed by gas which leaked from a main placed in the street last fall. The joints were imperfectly made. The Lowell Gas Company was informed of the havoc of the escaping gas and at once sent men to dig to the joints and make them tight. But the havoc had been wrought; the roots had felt the blast of the deadly gas. Asphyxiation had partly taken place; the sap of life was drying up and the work of the Gas Company was too late.

Respectfully submitted,

CHARLES A. WHITTET,
City Forester.

SIXTY-FIRST ANNUAL REPORT
OF THE
LOWELL CITY LIBRARY

SIXTEENTH REPORT
OF THE
LIBRARY TRUSTEES
OF THE CITY OF LOWELL
MASSACHUSETTS



FOR THE YEAR NINETEEN HUNDRED AND FIVE

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ADMINISTRATION OF THE LIBRARY, 1905.

BOARD OF TRUSTEES:

HON. JAMES B. CASEY, Mayor, *Ex-officio*.

ROWENA PALMER	.	.	.	.	Term expires	1907
FRANK P. PUTNAM	.	.	.	.	" "	1908
HON. GEORGE F. RICHARDSON	.	.			" "	1909
THOMAS WALSH	.	.	.	.	" "	1910
D. A. SULLIVAN	.	.	.	.	" "	1911

ORGANIZATION:

HON. JAMES B. CASEY, Chairman.

HON. GEORGE F. RICHARDSON, Vice Chairman.

FREDERICK A. CHASE, Clerk.

LIBRARIAN:

FREDERICK A. CHASE.

ASSIST. LIBRARIAN:

HARRIET F. HILL.

ASSISTANTS:

WALTER H. GILMAN,	CLARA BEARD,	HARRY C. BOWEN,
ALICE H. KIDDER,	ALICE M. MYERS,	BERTHA G. KYLE,
MARY S. NICKERSON,	PHILIAS RACICOT,	WILLIAM O'BRIEN.

SUPERINTENDENT OF READING ROOMS:

STEPHEN T. WYMAN.

REPORT OF THE TRUSTEES FOR 1905.

To the Honorable, the Members of the City Council:

GENTLEMEN— We have the honor to present herewith, in accordance with the City Ordinances, the report of the operations of the City Library for the fiscal year ending the 31st day of December, 1905.

There are few institutions in our community in which greater pride can be taken than the City Library, now in its 62nd year and a pioneer among public libraries. It is admirably housed; is well administered by a librarian and assistants with intelligence, courtesy and zeal; its collection of books is large and well proportioned; and it bears an enviable reputation among the best libraries in the country. The patronage which our community has bestowed upon it and the practical service it has rendered to all its people, abundantly justify it. The support accorded it by various City governments testifies to the acumen and public spirit of our municipal administrators.

Regarding the Resources of the Library.

The report for 1905 shows a decrease in the City appropriation, which has curtailed the usefulness of the Library. The City appropriation for last year was \$13,000, being \$3,000 less than that of former years, the committee on appropriations suggesting in its report: "We hope the Trustees will find that by using the Davis income for *running expenses* they will

have a better library than if they depended on the City Council appropriation alone."

The Trustees of the City Library have no desire to criticize a co-ordinate branch of the City government, but in justice to the Library they are compelled to place on record their protest against decreasing the City appropriation and using the income of the bequest of the late John Davis, Esquire, for running expenses. They are loath to believe that any considerable number of our citizens are willing to use a gift from the lamented dead for the running expenses of a public institution which is not eleemosynary, but is a temple dedicated by the people to the cause of popular education. Such use is a desecration of a bequest unless the bequest is given under that specific condition. The great builder of free libraries, Mr. Andrew Carnegie, makes it an invariable rule to all his library benefactions, that he will give no aid to a library which is not self-supporting—that a community which will not maintain its own library does not deserve the benefactions of individuals.

Annual Appropriation of \$16,000 Is Insufficient.

There is not a library in the country of which the expense is not increased as the library grows larger, and in many cities the annual appropriation is increased from time to time to meet existing conditions, except in Lowell, where the expense has not been increased in proportion to the Library's needs. The sum of \$16,000 was not sufficient when the Library was smaller, and is not sufficient now. The Library has been handicapped for years by lack of funds, yet the Trustees have done their duty uncomplainingly, to the best of their ability. Since October 14, 1893, when the present quarters were dedicated to library purposes, the cost of repairs and maintenance of these quarters has come from the Library appropriation. The heating and lighting apparatus have had to be altered at a considerable expense, and some of the rooms, left in an unfinished state, have been put in habitable condition, at the expense of the Library funds.

Expense Has Not Kept Pace With Growth.

Notwithstanding the growth of our City, the Library today is conducted at less expense than it was 15 or more years ago. Indeed, the expenditure for the Library has not kept pace with its growth and needs, and is much less than that of any library of its size in the State. For comparison, the subjoined table is of interest:

AMOUNTS APPROPRIATED ANNUALLY FOR LIBRARY PURPOSES IN THE
FOURTEEN LARGEST CITIES OF MASSACHUSETTS.

CITIES	Population, Census of 1905	City Appropriation	Income From Other Sources	TOTAL
Boston.....	595,380	\$310,000	\$16,000*	\$326,000
Worcester.....	128,135	34,000	12,000*	46,000
Fall River.....	105,762	24,000	.....	24,000
Cambridge.....	97,434	22,580	904	23,484
Lowell.....	94,889	13,000	3,500	16,500
Lynn.....	77,042	15,501	2,461	17,962
New Bedford.....	74,362	13,000	5,080	18,080
Springfield.....	73,540	37,945	10,531	†48,476
Lawrence.....	70,050	13,000	3,388	16,388
Somerville.....	69,272	19,000	200	19,200
Holyoke.....	49,934	10,000	420	10,420
Brockton.....	47,794	10,000	1,804	11,804
Haverhill.....	37,830	8,500	9,063	17,563
Salem.....	37,627	10,059	4,118	14,177

*Estimated.

†The cost of the Art and Science Museum (\$10,536) is included in this sum.

This table shows that the Lowell Library, in comparison with other cities, is poorly supported. The Worcester and Springfield libraries have nearly three times more funds than our library; Fall River, Cambridge, Lynn, Somerville, New Bedford and Haverhill spend much more money than Lowell for library purposes; while the other cities, none with Lowell's population, appropriate in some instances more, and some about the same, funds for library support as Lowell.

The Expenses of the Year.

Following is the financial condition of the City Library for the year 1905:

RECEIPTS.

Balance from previous year.....	\$.51
Appropriation by City Council.....	13,000.00
Interest on deposit.....	72.66
John Davis Fund.....	2,000.00
Fines.....	282.57
Other Sources.....	24.40
Total.....	\$15,381.14

EXPENDITURES.

Salaries.....	\$ 9,304.30
Binding.....	937.45
Lighting.....	1,971.29
Books — From Library Fund.....	\$ 396.35 }
From Income of John Davis Fund..	2000.00 }
Periodicals.....	140.27
Sundries.....	629.73
Balance.....	1.75
Total.....	\$15,381.14

It will thus be seen that the expenses of the Library were \$2,381.14 greater than the amount appropriated by the City, despite the most rigid economy and curtailment in every department. This deficiency was met by \$2,000 from the income of the Davis fund and \$381.14 from fines and other sources. In other words, the City appropriation barely covered the living expenses of the Library—salaries, lighting, newspapers, scrubbing, incidental supplies—and the Library had to depend upon the Davis fund for books.

Disposition of the John Davis Bequest.

The Trustees believed and still believe that the City, in providing for its Library, should furnish the people with such

current books and magazines as are more or less transitory in character and used chiefly for entertainment, and that it is a misuse of a bequest to apply it to the purchase of current books and magazines, or to the replacing of books worn out in service. Unfortunately, because of the dropping off in the patronage of the Library, due to the lack of new books, it seemed necessary recently to apply \$2,000 of the Davis income to the purchase of transitory reading matter. The munificent bequest of Mr. Davis to the Library was given to the Trustees without any restrictions, it is true, but it is none the less their duty to carry out what they believe to be his intentions in regard to its disposition. It can hardly be contended that it was his intention to help the City maintain the cost of the Library, but rather that the money be used for such special purposes as the Trustees might determine. Unless the Trustees take this view of the use to be made of money received from gifts, it is extremely unlikely that other money will ever be donated to the Library unless accompanied by conditions that may prove irksome. The Act of the Legislature creating the Board of Trustees of the City Library, and the City Ordinances defining and governing the Board's duties and powers, leave to the Trustees the control, management and disposition of trust funds. The interpretation which they have made thus far of Mr. Davis' intentions has been liberal. The principal of the John Davis bequest they propose to hold intact and inviolate, safely invested in good interest-bearing securities. They have purchased from its income a large and valuable collection of engravings. The fitting up and furnishing of the Children's Room, which is doing a great work, were made possible by the Davis income. The sum of \$3,200 from this income has been spent on books, and from the same revenue the Trustees have been enabled to secure one of the largest and most valuable collections of textile volumes in the country; and they are now securing text books and technical works for craftsmen and apprentices in the various trades—publications invaluable to young men and women unable to afford the cost of these means of improving their knowledge

of the crafts. In short, it is proposed to expend the income of the Davis fund in a manner that shall enrich the Library in various directions as the needs arise. The generous gift is recognized by a special book-plate, inscribed: "City Library of Lowell. Bought from the Income of the John Davis Bequest."

Finding Lists of Books For the People.

Last year's appropriation was not large enough to warrant the publishing of "Finding Lists," or Catalogues, of which the Library is greatly in need. The present card-catalogue system is well enough as far as it goes, but there is great need of printed lists of books, which the people can take home and consult at leisure.

To Broaden the Library's Usefulness.

Assured the regular City appropriation, the Trustees feel, with the income of the Davis fund, they can largely increase the usefulness of the Library. Besides the objects already stated, they have several plans for improvement in contemplation. They propose putting suitable shelves in the Exhibition Room and placing thereon several thousand volumes of the best books, to which the public shall have ready access. They also intend opening the Library on Sundays, at certain hours. Moreover, the schools, already large patrons of the Library, need an increased supply of books suited to their needs. The Lowell Library was among the first to put into operation the supplying of books to the public schools, and the heartiest co-operation exists between schools and Library.

Portraits of Mr. and Mrs. Davis.

Since the receipt of the Davis bequest the Trustees have been considering how best to recognize the munificence of the donors. They have finally decided to place in the Library portraits of Mr. and Mrs. Davis, which are to be painted by Mr. Edward C. Tarbell, of Boston.

Large Collection of Art Pictures.

Early in the development of the Library the value of pictures in supplementing the use of books was recognized, and there has been gathered in our Library a large collection of pictures illustrative of the world's art and of its mechanical and industrial advance. Frequent public exhibitions of them have been given, and their free use has been encouraged.

Reference Department.

The Reference Department is not merely a museum for the preservation of literary treasures, but is a work-shop furnishing tools for intellectual work; and the use of 10,917 books the past year demonstrates the value of this department. It is a bureau of information in the largest sense, for not only books are made easy of access but the attendants are helpers of those seeking information. While the primary work of a library is to supply a demand, its function is also to create a need, and no effort has been spared to create the reading habit among the people so far as means permitted. Books are put upon shelves, where they can readily be examined, and success has justified the experiment. A gratifying increase of readers is coming from the artisan class, indicating that the Library is helping in practical lines of advance.

Needed Improvements.

Improvement has been made in the lighting of the Reference and Magazine Rooms. Additional chandeliers were placed in these rooms, and new electric lights were installed. There is urgent need of improving the Reading Rooms on the first floor. The walls and ceilings should be brightened, nothing having been done to them since the building was opened to the public, 12 years ago; and the system of lighting, which is obsolete and insufficient, should be supplanted by a better one. The Reading Rooms are the workman's club, and every effort should be made to add to their comfort and efficiency. There are 222 papers and

periodicals in this department, all being in constant use. The attendance continues to increase, and the capacity of the rooms has been severely tested both on week-days and Sundays.

Children's Room.

The patronage of the Children's Room has well justified its establishment. It is open outside of school hours, and the attendance is large. Open shelves of juvenile books and books of reference have been placed in the room, and on the tables are current periodicals. Low tables and kindergarten chairs are in use, on the walls are good pictures, and there is every facility for the comfort, healthy entertainment and education of children. The Children's Room is a boon to the mother who cannot leave her children at home unattended, for here the children may peruse well-printed books or be entertained by pictures of wonderland, while the mother does necessary errands. The Trustees will be glad to have mothers freely enjoy the privileges of this department.

The Ventilation Is Bad.

The ventilation of the Library quarters is a source of complaint from patrons. Particularly when the rooms are crowded, as they frequently are, the ventilation is noticeably imperfect. A remedy is called for and cannot be too strongly recommended.

The Library's Circulation.

The circulation of books for home use for the year was 126,904, a loss of 18,025 from the previous year, probably due to the lack of new books. The total registration of card patrons was 29,791, an increase of 1679 over the year 1904, the largest registration in the history of the Library. The largest daily circulation was 955, and the smallest was 112. The average daily circulation of the year was 422. There were 1381 volumes added during the year 1905, and the total number of volumes in the Library is 69,698. These figures indicate that the Library is freely used by the citizens.

As to the Classes of Books.

The Trustees believe that the classes of books, magazines and periodicals on the shelves and on file in the Library are the best that could be selected for the manifold wants of the numerous readers, as the tastes of a wide range of individuals have been respected. Much criticism is heard regarding fiction in public libraries, some people asserting that libraries have too much of that class of reading, while others maintain there is too little. The time is gone by when a public library can afford to ignore any class of literature that is wholesome, entertaining and instructive. Fiction is a necessary part of the equipment of a public library. "The function of imaginative literature," says John Morley, "is to awaken the sympathies, to quicken the moral sensibilities, and enlarge our moral vision. To a person in a jaded condition of mind, nothing is more refreshing after a day's work than to spend an hour or two in reading wholesome works of imagination." Our Library has a good supply of fiction, but its Trustees can never hope perceptibly to lessen complaints regarding the inability of patrons promptly to secure new and popular books. There is but one remedy: Plenty of duplicate copies; and these the Trustees never hope to be able to supply because of the unjustifiable expense to the taxpayers.

French fiction and general literature have a good representation on the Library's shelves, and serve many readers.

Gifts to the Library.

Besides the many valuable books received as gifts, the Library has been peculiarly fortunate in receiving other donations. On its walls now hangs a large and handsome portrait of King Edward VII, the gift of the Honorable Mrs. Arthur Paget, of London. Mr. Charles C. Hutchinson is the donor of a finely illustrated volume on the Knights Templar. Friends of the late Dr. Joel Spaulding have loaned a portrait of that distinguished and most estimable man, for a long time one of Lowell's useful and public-spirited citizens. On

another page will be found the list of donors of books and pamphlets to the Library:

The Trustees take pleasure in publicly acknowledging these gifts and in heartily thanking the donors. It is especially pleasing to hang portraits of Lowell's revered dead in the Library, with those of Nathan Appleton, Abbott Lawrence, Patrick T. Jackson, and worthy pioneers who made Lowell possible by their abilities and far-reaching activities. It may here be appropriate to say that the Trustees wish they could have the portraits of other distinguished Lowellians, so that the gallery may be one of the greatest attractions of the Library.

No Special Favors to Patrons.

It cannot be too strongly asserted that the Library grants no special favors to patron or patrons. It is the City's library, belonging to all the people, and the Library employes are instructed to treat all its patrons with equal courtesy. Specific charges against any attendant, duly presented to the Trustees, will always be thoroughly investigated by them, with a view to ensuring satisfactory service.

Books Reserved

In this connection attention is called to the long-standing rule, for the accomodation of the public, which reserves for patrons, upon request, books that are "out" when applied for. Such books are reserved for 48 hours after patrons are notified. This privilege is for all patrons of the Library who desire to avail themselves of it.

Subjoined Reports.

The subjoined reports contain statistics as to the circulation of books and periodicals, the list of donors to the Library, the report of the auditor on the Davis fund, and a report of the income of the fund for 1905.

The Library's Great Value.

With the growth of the City there should be a corresponding increase of the work of the City Library. The expense is justified from every point of view. Civil life is improved as it is enlightened; homes are better when wiser people live in them. The educated head gives a finer touch to the artisan's hand; the industries of a community yield larger returns when guided by intelligence. If a public library serves no other purpose than keeping boys and girls off the streets, away from vicious environment, it justifies its existence and its cost.

In conclusion, the Trustees of the City Library of Lowell will endeavor to the best of their ability to administer, in the future as in the past, the important trust committed to them.

All of which is respectfully submitted.

JAMES B. CASEY

GEORGE F. RICHARDSON

ROWENA PALMER

FRANK P. PUTNAM

THOMAS WALSH

D. A. SULLIVAN

Trustees of the City Library of Lowell.

CONDITION OF THE LIBRARY.

Volumes purchased during the year	1248
Volumes added by gift	64
Volumes added by binding periodicals	270
Worn-out books replaced	115
Duplicates purchased	86
Total number of volumes added	1381
Total number of volumes in the Library	69,698
Volumes lost and not paid for	52
Estimated value of the same	\$55.14
Periodicals and papers subscribed for	198
Periodicals and papers given	24
Number of volumes used, home and reference	126,904
Number of volumes consulted in the Reference Room	10,917
Number of post cards sent to delinquents during the year	4521
Applicants received during the year	1730
Applicants who did not call for cards	71
Names registered during the year	1659
Number of names registered Dec. 31, 1904	28,132
Total registered to date, Dec. 31, 1905	29,791
Library open 300½ days	
Total circulation	126,904
Average daily circulation	422
Largest monthly circulation (January)	12,891
Smallest monthly circulation (August)	7613
Largest daily circulation (March 11)	955
Smallest daily circulation (January 25)	112
Percentage of fiction read	73
Percentage of other classes	27

CONTENTS OF THE LIBRARY, CLASSIFIED.

CLASS OF BOOKS	No. Volumes
General Works.	1637
United States Government Publications.	3956
Magazines.	9584
Philosophy.	1191
Theology.	3693
Sociology .. .	3569
Philology.	424
Science.	2752
Useful Arts.	2348
Fine Arts.	2919
General Literature.	7669
Biography.	5791
Genealogy and Heraldry.	376
History, Description and Travel.	10,932
Fiction.	12,857
Total.	69,698

LIST OF DONORS TO THE LIBRARY, 1905.

NAMES	Volumes	Pamphlets
American Irish Historical Society.....	1	
Ancient and Honorable Artillery Co....	1	
Bennett Fund Trustees.....	1	
Bolton, Mrs. S. K.....	1	
Brentano, E.....	1	
Buckshorn, Rev. L. H.	2	3
Chase, F. N.....		2
Chicago University.....		1
Christian Science Society of Lowell....	1	
Church of Latter Day Saints.....	1	
Cowley, Charles.....	1	
Draper Co., Hopedale, Mass.....	2	
Harrison, C. H.....	1	
Harvard University.....	1	
Kearney, Stephen J.....	2	
Lathrop, Dr. W. H.....	1	
Lee & Shepard.....	1	
Livingston, C. F.	1	
Malden Public Library.....	1	
Massachusetts Institute of Technology...		1
Massachusetts, State of.....	15	1
Melcher, Mrs. E. S.	1	
Morton, H. L.....	1	
Phillips, Samuel L.....	1	
Providence Record Commissioners.....	1	
Reade, Col. Philip.....	1	
Rogers, Miss H.....	1	
Swedish Board of Trade	1	
Tufts College		1
Smithsonian Institution..	2	
United States: Supt. Public Documents.	209	272
Welles, C. S.....	1	
Whipple, L. E.....	1	
Wisconsin Historical Society	1	
Total.....	256	281

AUDITOR'S REPORT ON THE JOHN DAVIS BEQUEST.

To the Trustees of the City Library of Lowell, Mass.:

At the request of Mr. Putnam of your Board, I have made a careful examination of the John Davis Fund, and beg to submit the following report:

When the property comprising the Estate was turned over to your Board, I find that a portion of it consisted of several pieces of real estate, which have been cared for by your Librarian, Mr. Chase, as agent, whose account as agent has been carefully and minutely kept, with all disbursements properly vouchered, and now showing a balance on hand of \$106.12, which amount is on deposit to credit of his account as agent in the Old Lowell Bank, this amount being certified to at the bank.

The real estate having been largely disposed of, there remains but two pieces, that at 76 C Street, Lowell, with an assessed value of \$1,900, rented at \$12 per month, and a piece of unproductive vacant land in Wilmington, Mass., appraised at \$500.

In the custody of the City Treasurer, I find the following securities:

SAVINGS BANK BOOKS.

NAME OF BANK	No. of Acct.	Present Value
Mechanics.....	1562	\$ 1,558.25
“	12928	997.12
“	12348	654.02
“	18944	740.77
“	18960	1,623.94
City Institution.....	4522	1,080.00
“ “	72189	521.19
Central.....	12618	135.74
“	18573	1,487.85
Merrimack River.....	6223	951.55
Five Cents.....	48940	1,489.68
“ “	25522	1,419.04
Provident Institution (Boston).....	306216	688.20
Total.....		\$13,347.35

REGISTERED BONDS.

NAME	Due	Interest	Present Value
City of Boston.....	1919	3½	\$10,000
Boston & Maine R. R.....	1944	4½	11,000
Boston & Albany R. R.....	1952	3½	4,000
New York, New Haven & Hartford R. R.	1914	4	10,000
United States Consuls.	1907	4	1,000
“ “ “	1907	4	500
Illinois Central R. R. (Purchased Lines)...	1952	3½	10,000
Total.....			\$46,500

STOCKS,

No. of Shares	NAME	Appraised		Present Value	
		Rate	Amount	Rate	Amount
50	Merrimack Manufacturing Co.....	98	\$ 4,900	35	\$1,750.00
3	Bleachery Co.....	100	300	90¼	270.75
12	Middlesex Co.	86	1,032	65¾	789.00
49	Bigelow Carpet Co.....	105	5,145	118	5,782.00
8	Bank of the Republic, Boston.....	154	1,232	160	1,280.00
6	Bank of Commerce, Boston.....	143	858	153	918.00
9	Appleton Bank, Lowell.....	114	1 026	107	963.00
3	Old Lowell Bank, Lowell... ..	112	336	106	318.00
11	Prescott Bank, Lowell.....	208	1,188	108	1,188.00
10	First National Bank, Lowell.....	100	1,000	120	1,200.00
2	Wamesit Bank, Lowell.....	100	200	100	200.00
11	Union National Bank, Lowell.....	165	1,815	162	1,782.00
41	Boston & Maine R. R. (Common)..	194	7,954	177½	7,278.00
39	Boston & Albany R. R.....	264	10,296	255	9,945.00
1	Nashua & Lowell R. R.....	264	264	258	258.00
1	Concord & Montreal R. R.....	200	200	188	188.00
3	Lowell Gas Light Co.....	250	750	248	744.00
16	United Shoe Machinery (Common)	52	832	91	1,456.00
13	“ “ “ (Preferred)	29	377	31½	409.50
8	American Tel. & Tel. Co.....	178	1,424	140	1,120.00
6	Hudson River Telephone Co.....	203	618	98	588.00
Total.....			\$41,747		\$38,427.25

NOTES.

KIND	Appraised	Present Value
Four Mortgage Notes.....	3,450.00	\$3,450.00
Three Promissory Notes.....	390.00	.....
Total.....	\$3,840.00	\$3,450.00

I find that all savings bank books, registered bonds and certificates of stock have been issued or transferred, so that they now stand in the name of the "Trustees of the City Library of Lowell, Mass., a Body Corporate," and that all notes have been endorsed by the executor of Mr. Davis' will, in favor of the Trustees, in the same form.

The account of the income from these securities, together with the receipts from the sale of real estate, have been carefully kept by your Librarian, together with a record of expenditures, consisting of the re-investment and appropriation of the funds, and now shows a balance of cash in the Treasurer's hands of \$6,175.28, which is on deposit to the credit of the Davis Fund, in the Prescott National Bank, said amount being certified to at the bank.

The item of silverware and jewelry, appraised at \$90.15, is in the custody of the Librarian, and has been exhibited to satisfy the purposes of the audit.

Following is a summary of the property as found:

Savings Bank Account.....	\$13,347.35
Bonds.....	46,500.00
Stocks.....	38,427.25
Notes.....	3,450.00
Real Estate.....	2,400.00
Silverware and Jewelry.....	90.15
City Treasurer.....	\$6,175.28 }
Cash, F. A. Chase, Agent::	106.12 } 6,281.40
	<u>\$110,496.15</u>

The accounts and securities appear in an entirely satisfactory form, and I take this opportunity to commend to the Trustees the careful and thorough manner in which the record has been kept by the librarian, Mr. Chase, and to thank him for many courtesies which aided to facilitate the examination.

Respectfully submitted,

FRANKLIN E. JOHNSON,
Auditor.

LOWELL, June 29th, 1905.

JOHN DAVIS FUND, INCOME FOR 1905.

Dividends and Interest received.....	\$3,533.51
Rebate on Tax on Bank Shares.....	123.54
Total.....	<u>\$3,657.05</u>
Applied to Purchase of Bonds.....	\$ 526 81
Transferred to Library Fund	2,000 00
Cash on hand January 1, 1906.....	<u>1,130.24</u>
Total.....	<u>\$3,657.05</u>

ANNOUNCEMENTS.

Library and Reading Rooms open from 9 a. m. to 9 p. m.

Reading Rooms open Sundays, 9 a. m. to 12 m. ; 6 to 9 p. m.

The regular meeting of the Trustees of the Library is held
on the first Monday evening of each month at 7.30 o'clock.



BUCKLAND PRINTING COMPANY

70-72-74 MIDDLE STREET

LOWELL

ANNUAL REPORT

OF THE

CITY SOLICITOR

FOR THE YEAR ENDING

1905—'06.



LOWELL, MASS:
UNION PRINTING CO., 77 MIDDLE ST.
1906.

REPORT

OFFICE OF CITY SOLICITOR,
Lowell, Mass., February 28, 1906.

Gentlemen of the City Council:

In compliance with the City Ordinances, I submit the following report of the business of the law department for the year ending February 28, 1906.

LITIGATION.

6433. *William H. Shrugruo v. City of Lowell.*

This was an action of tort for personal injuries alleged to have been received by the plaintiff January 14, 1904. The cause of the accident was alleged to be a defect on the westerly side of Fletcher street at a point on the sidewalk in front of the door of the building occupied by the Lighting department near

the corner of Cross street. The writ was dated January 12, 1904, and returnable to the Superior Court on the first Monday of March, 1904.

This case was heard at considerable length before the jury at the March sitting of the Superior Court, 1905, and resulted in a verdict for the defendant.

6459. *Bridget Markey v. City of Lowell.*

This was an action of tort for personal injuries alleged to have been received by the plaintiff January 14, 1904, by reason of an alleged defect in the sidewalk on the easterly side of Market street near the canal and railroad crossing. The writ was dated February 17, 1904, and returnable to the Superior Court the first Monday of March, 1904. As the writ in this case was not served on the defendant thirty days before the entry day, defendant filed a motion to dismiss the action, and, by agreement, the plaintiff in the case was non-suited.

6694. *Bridget Markey v. City of Lowell.*

This was an action of tort brought to recover the sum of \$20,000, for personal injuries alleged to have been received by the plaintiff January 14, 1904, by reason of an alleged defect in the sidewalk on the easterly side of Market street, near the canal and railroad crossing. The writ was dated March 31, 1904, and returnable to the Superior Court the first Monday of May, 1904. Settled for \$135.

6695.

Patrick Markey v. City of Lowell.

This was an action of tort brought to recover the sum of \$5000, for loss of consortium, comfort, assistance, society and benefit of his wife, Bridget Markey, because of alleged injuries received by her while travelling along the sidewalk on Market street, January 14, 1904. The writ was dated March 31, 1904, and returnable to the Superior Court the first Monday of May, 1904.

In this case judgment was entered for the defendant without costs.

4564.

Margaret V. Connors v. City of Lowell.

This was an action to recover, under the statute, certain sums of money paid to the City Treasurer for tax titles which were alleged to be defective by reason of errors, omissions and informalities in the assessment and sale of the land. The writ was dated November 19, 1902, and was returnable to the Superior Court the first Monday of January, 1903. The case was argued on agreed statement of facts before Mr. Justice Richardson, November 14, 1904, and on January 13, 1905, the Court ordered judgment for the plaintiff in the sum of \$413.98 with interest at the rate of ten per cent. from October 11, 1900. Defendant appealed to the Supreme Judicial Court. After a careful review of all the facts in this case I agreed to a waiver of the appeal to the Supreme Judicial Court and to the entry of judgment upon the finding

of the Superior Court, as I deemed it my duty to save the city the costs of printing briefs and expense of argument, being satisfied there could have been but one result. On December 6, 1905, final judgment was entered for the plaintiff for the sum of \$627.17 together with costs amounting to \$60.08, which were paid by the city.

4665.

John McLaughlin v. City of Lowell.

This was an action of tort for personal injuries alleged to have been received by the plaintiff July 16, 1902, by reason of an alleged defect in the sidewalk on the southerly side of Lakeview Avenue, nearly opposite the store of John Burke, situated on the northerly side of said avenue. The writ was dated November 18, 1902, and was returnable to the Superior Court the first Monday of January, 1903. The case was tried in the Superior Court at the March term before a jury, which returned a verdict for the defendant.

1201.

Abolition of Grade Crossings.

Petition of the Mayor, and Board of Aldermen to the Superior Court asking for the appointment of a commission to consider the advisability of a change of grade where the railroads now operated and controlled by the Boston & Maine Railroad, New York, New Haven and Hartford Railroad, and the Boston & Northern Street Railway cross the following streets at

grade, viz: Middlesex street, east of Northern Station, Thorndike street, School street, Walker street, Lincoln street, and Plain street.

1264. During the year 1905, the railroad tracks in Middlesex street easterly of the Northern Station, and the railroad tracks in Thorndike street were removed without cost to the city of Lowell.

1313. *City of Lowell v. Sam H. Rostler, et al.*

This was a bill of complaint by the City of Lowell against Sam H. Rostler and Samuel Rostler and John Berard, praying that a writ of injunction might issue restraining the respondents, their agents and servants from erecting, maintaining, occupying or using wooden building situated on the southerly side of Middlesex street and the easterly side of McIntyre street within the fire district, in violation of City Ordinances. The respondents having complied with the provisions of the Charter and Ordinances of the City of Lowell, relating to the construction of buildings, to the satisfaction of the Superintendent of Public Buildings, it was agreed by counsel that entry be "Bill dismissed without costs."

9077. *John L. Douglass, et al v. City of Lowell.*

This is an action of contract brought to recover the sum of \$689. and interest thereon, alleged to be due the plaintiffs for having been to the expense of hiring necessary men and of purchasing necessary

materials for the laying of 2312 square yards of water proof covering for the floor of the Aiken street bridge, on a contract dated Nov. 17, 1904, and an additional sum of \$25.40 for materials sold to the defendant. The writ is dated June 15, 1905 and returnable to the Superior Court the first Monday of August, 1905.

32791. *Arthur B. Chapin, Treasurer and Receiver
General v. City of Lowell.*

This is an action of contract brought by the plaintiff to recover the sum of \$119.78 for board and tuition of Kate Noyes and Henrietta Follensby at the Massachusetts School for the Feeble Minded. The writ is dated June 29, 1905, and returnable to the Superior Court within and for the County of Suffolk, on the first Monday of August, 1905. I have filed an answer and the case is now pending.

1251. *City of Lowell v. Amedee Archambeault.*

This was a Bill of Complaint by the City of Lowell against Amedee Archambeault praying that a writ of injunction might issue against the respondent from using and occupying as a stable, building situated on the westerly side of Decatur street and the northerly side of Decatur avenue, and from keeping horses therein contrary to the provisions of the Revised Laws. The case was argued December 13, 1904, before Mr. Justice De Coursey and on December 21, 1904, notice was received of a decree of Court

ordering a perpetual injunction. Respondent's counsel appealed to the Supreme Judicial Court. The case was argued before the full court in March last, and the finding of the Superior Court in favor of the petitioner was reversed.

5779. *George W. Marshall v. City of Lowell.*

This was a petition to the Superior Court to assess damages alleged to have been caused to the petitioner's building and the taking of land for the purpose of widening and straightening and altering the grade in front of his premises in the street known as Parker street. The petition was filed October 15, 1903. The City of Lowell acting by its City Council awarded the petitioner the sum of \$550. which award the said petitioner refused to accept. I made a personal examination of the premises and after obtaining the opinion of experts on the question of damages, and being satisfied that the best interests of the city would be promoted thereby I settled this case by agreement for judgment for the plaintiff for the sum of \$750.

6558. *Edward Quinn v. City of Lowell.*

This was an action of tort for personal injuries alleged to have been received by the plaintiff Saturday, August 22, 1903, while at work in Court Street sewer. The writ was dated January 18, 1904, and returnable to the Superior Court the first Monday of

March, 1904. Trial was had at the October sitting of the Superior Court before Mr. Justice Fox. The jury returned a verdict for the plaintiff for \$3,000. with costs amounting to \$111.29, which were paid.

478. *Edward F. Conners, et al v. City of Lowell.*

This was an action of contract brought by the plaintiff in the Police Court of Lowell to recover the sum of \$184.52 for the use of certain articles alleged to have been loaned to the Street department by the plaintiffs and not returned. The writ was dated the 19th day of November, 1902, and was returnable to the Police Court the first Saturday of January, 1903. I settled the case for \$75. without costs.

500. *Robert J. Crowley et al v. James B. Casey,
Mayor of the City of Lowell.*

This is a petition of Robert J. Crowley, Frank L. Weaver, Isaac E. Wotton and Zopher W. Sturtevant, members of the Lowell Water Board, to the Supreme Judicial Court, praying that a writ of mandamus may issue commanding the said James B. Casey, Mayor of said City of Lowell to sign his approval to the contract executed between the City of Lowell by its Water Board and the Holly Manufacturing Company of Buffalo, New York, for furnishing a steam pumping engine at a cost of \$19,700. The case was heard and argued before Mr. Justice Bradley in January last, and on January 26th he denied the petition.

497.

James B. Casey v. City Council, et al.

This is a petition to the Supreme Judicial Court for a writ of Certiorari by James B. Casey, Mayor of Lowell, seeking to have a certain joint order of the City Council of said Lowell, redistricting said city into a new division of wards, declared illegal. The petition was filed June 7, 1905. I appeared for both branches of the City Council and the City Clerk, and after a hearing before Mr. Justice Loring the petition was dismissed. June 24, 1905, and at the request of the petitioner, the case was reported to the full court. At the January, 1906, sitting thereof the case was submitted on briefs and is still pending.

7337.

Joseph Smith v. City of Lowell.

This was an action of contract brought by the plaintiff in the Police Court of Lowell to recover the sum of three hundred dollars, alleged to be due him for services as clerk of the Board of Police of the City of Lowell, for the year ending December 31, 1902. The writ was dated July 23, 1903, and returnable the first Saturday of September, 1903.

The case was submitted on an agreed statement of facts to Mr. Justice Hadley of the Police Court of Lowell, who found in favor of the plaintiff. An appeal was taken to the Superior Court, and the matter was submitted on the same agreed statement of facts to Mr. Justice Stevens at the November, 1904, term of the Court at Lowell. The Court found for the plaintiff

for \$337.50. Defendant appealed to the Supreme Judicial Court. Briefs were filed with full court by counsel November 11, 1905.

Notice has been received of rescript directing the following entry : Judgment for the Plaintiff.

9158.

William B. DeLas Casas, et al.

Petition of Wiliam B. DeLas Casas, et al Metropolitan Park Commissioners, to Supreme Judicial Court for appointment of commissioners to determine payments by cities and towns under Acts of 1901, Ch. 491. Appearance for the City of Lowell was entered in court January 19, 1905.

Messrs. Arthur P. Rugg, James F. Jackson and John J. Flaherty were duly appointed commissioners in the above cause to make a determination and award as to an appointment of the cost of the construction and maintenance of the Wellington or Middlesex Avenue bridge, built across the Mystic River between the cities of Bomerville and Medford. I appeared before said commissioners at several hearings held at Boston and argued that the City of Lowell derived no special benefits from the use of said bridge and should not be holden for its construction or maintenance. The final report of the findings of said commissioners bearing date of September 16, 1905, relieves said City of Lowell from paying any portion of cost of construction or maintenance of said Wellington bridge.

Abandonment Merrimack Street Railroad Station.

In March last the Mayor, acting under the authorization of the City Council, requested this department to prepare a petition to the Legislature, accompanied by a bill, which should provide for the removal of the railroad tracks easterly of the Middlesex street station so as to eliminate the easterly grade crossing on Middlesex street, and on Thorndike street; and for the acquiring by the Boston and Maine Railroad of the land easterly of the Middlesex street station and for the grading thereof so as to make a suitable and convenient approach for the carriages and teams to the easterly side of said station, and also for the abandonment of the Merrimack street railroad station.

Such a bill was prepared and introduced into the Legislature and was enacted unto a law pursuant thereto. The railroads have abandoned the Merrimack street station and have removed the tracks as provided and are now engaged in improving the easterly approach to this station.

8911. Charles Cowley v. City of Lowell.

This is an action of tort or contract brought by the plaintiff in the Superior Court to recover damages by reason of alleged negligence of the defendant in permitting the Proprietors of the Locks and Canals along Merrimack River to establish their water system of pipes to intersect with the water pipes of said city, said water pipes of said city being constructed and maintained for the distribution of pure water for

the use of said city and its inhabitants for extinguishing fires, creating steam and for drinking and other purposes; and for suffering the water in said Proprietors system of water pipes to run through certain water gates and check valves into said city's water pipes. The plaintiff alleges that on July 19, 1903, a large quantity of coal stored in one of the buildings of the Merrimack Manufacturing Company of Lowell took fire and it and the building were destroyed; that the Proprietors aforesaid, the Merrimack Manufacturing Company and the Lawrence Manufacturing Company availing themselves of their system of water pipes intersecting with said city's system of water pipes took from said city's reservoir half a million gallons of water for use in extinguishing said fire, greatly depleting the quantity in said city's reservoir and water pipes and that said Proprietors aforesaid, and the said Merrimack Manufacturing Company and the said Lawrence Manufacturing Company undertook without objection from said city to replenish the quantity of water in their reservoir with water pumped from Merrimack River near the mouth of said city's sewer on Aiken street, but therein failed because certain check valves were so imperfectly constructed as to be unfit for use and failed to perform the function which they should have performed, and one of said check valves opened and remained open for many hours and thereby half a million gallons of Merrimack River water, more or less, entered said city's water pipes and commingled with the pure water therein and polluted and poisoned the same. The plaintiff further alleges that in consequence of his drinking of said mixture of

said Merrimack River and drain water he suffered sickness and for a long time pain of body and mind.

The writ was dated July 1st, 1905, and returnable to the Superior Court the first Monday of August, 1905.

The case was referred to Walter Adams, Esq., of Framingham as Auditor. Several hearings have already been had and the case is still pending.

10175. *Ellen O'Connor v. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by reason of a defect in the sidewalk on South street opposite No. 198. The writ is dated February 3, 1906 and was returnable to the Superior Court on the first Monday of March, 1906.

John J. Griffin v. City of Lowell.

This was an action of tort or contract brought by the plaintiff in the Police Court of Lowell. The writ was dated January 13, 1906 and was returnable to the Police Court of Lowell on the fourth Saturday 1906. This case was not entered in Court.

In the following cases no changes have been made during the past year.

274. *Peter Curran v. City of Lowell.*

869. *Bernard Delaney et als v. City of Lowell.*

1560. *Napoleon Houle v. City of Lowell.*
- 175 *Lowell Waste Company v City of Lowell.*
1201. *Mayor and Aldermen v. Boston & Maine Railroad et al. (Abolition of Grade Crossings.)*
1265. *Same. (Plain Street & Boston Road)*
1266. *Same. (School Street and Walker Street)*
1267. *Same. (Lincoln Street)*
3564. *Town of Maynard v. City of Lowell.*
1151. *Patrick O'Hearn v. City of Lowell.*
76. *D. Maria Parker et al v. City of Lowell.*
117. *D. Moody Prescott v. City of Lowell.*
922. *James Smith et al v. City of Lowell.*
559. *Charles J. Wigren v. F. O J. Townsend.*
3032. *Bragg Manufacturing Co. (U. S. Ct.) v. City of Lowell.*

LIST OF OPINIONS WRITTEN SINCE MARCH 1905.

March 15. To Martin J. Courtney, Secretary of Overseers of Poor.

Relating to Election of Chairman of the Board.

March 29. Same.

April 18. To James E. Donnelly, Chief of Department of Supplies.

Relating to Bids for Supply of Vitrified Sewer Pipe.

April 24. Same.

April 28. To Girard P. Dadman, City Clerk.

Relating to Legality of Order "Providing for a New Division of the Territory of the City of Lowell into Wards."

April 29. To Abel Wheeler, Chairman of Board of Assessors.

Relating to Election of Assistant Assessors.

May 5. To Frank M. Dowling, Clerk of Committees Relating to Legality of Bill of Constable John McManus, he holding office as a member of Board of Overseers of Poor.

May 11. To Hon. James B. Casey, Mayor of Lowell.
Relating to Licenses for Public Entertainments.

June 15. To Hon. James B. Casey, Mayor of Lowell.
Relating to Liability of the City for damages by the publishing of the report of the Analysis of Ales and Liquors made by Chemists Irish and Allen.

July 22. Dr. Hugh Walker, of the School Board.
Relating to Evening Schools.

Aug. 2. To George Bowers, City Engineer.
Relating to Power of City Council to change the names of unaccepted streets.

Aug. 3. To Frank M. Dowling. Clerk of Committees

Relating to Authority of Board of Aldermen or Inspector of Wires to order new Telephone Poles set, when old ones are in an unsafe condition.

Aug. 3. To James F. McElholm, Inspector of Wires.

Relating to Procedure for revoking pole locations.

Sept. 6 To A. K. Whitcomb, Superintendent of Schools.

Relating to Authority of School Committee to approve bill for damages allowed to a teacher by the Committee on Claims.

Nov. 10. To A. K. Whitcomb, Superintendent of Schools.

1st. As to whether a minor who fails to attend all the sessions of evening schools is a regular attendant.

2nd. Whether the Law imposes any penalty upon an illiterate minor over 14 years of age who is not employed for wages and who fails to attend evening school.

Nov. 22. To A. K. Whitcomb, Superintendent of Schools.

Relating to Right of Public to examine school registers or other lists of names of public school pupils.

Dec. 2. Park Commission.

Relating to rights of City to damages for destruction of trees on Middlesex street by gas escaping from the mains of the Lowell Gas Light Company.

1906.

Jan. 22. To Alderman Otis Allen.

As to Authority of Board of Aldermen to grant locations in Lowell upon private land as petitioned for by the Directors of the Boston-Lowell Interurban Street Railway Company.

Jan. 29. To Martin J. Courtney, Supt. of Board of Charities.

As to whether the Board of Charities can establish more than eight hours per day for the daily hours of service for each ambulance driver.

Jan. 29. Councilman George W. Peterson.

As to the course to pursue for repairs and alterations in the Westford Street Armory.

Jan. 29. To Councilman George W. Peterson.

As to whether the City Council can transfer the ambulance service from the department of Board of Charities to the Police Department.

Jan. 29. To Martin J. Courtney, Supt. of Board of Charities.

Upon the following question: "Can the Charity Commissioners force collection on outstanding accounts of this department after said accounts have been turned over to the City Treasurer for collection?"

Jan. 31. To Frank M. Dowling, Clerk of Committees.

As to "Whether or not the Appropriations Committee has the authority to recommend for the running expenses of the Water Board a certain appropriation to be taken from the receipts of said Board."

Feb. 9. To A. K. Whitcomb, Superintendent of
Schools.

As to whether the city can legally hire the
Textile School to conduct a Free Evening
Drawing School.

Respectfully submitted,

JAMES GILBERT HILL,

City Solicitor.



LIST OF JURORS

FOR THE

CITY OF LOWELL,

FOR THE YEAR 1906.



LOWELL, MASS.
THE LIBBY PRINTING COMPANY.
1906.

LIST OF JURORS.

A

ABBOTT, HENRY F.	278	Branch st.	dealer
ABBOTT, JOHN W.	12	Fremont st.	tinsmith
ALLEN, JAMES B.	53	Central st.	superintendent
ABBOTT, LAROE S.	32	Lane st.	machinist
ABELS, ALEXANDER M.	43	Nicollet st.	merchant
ABELS, SAMSON	43	Nicollet st.	merchant
ABELL, ORIN W.	7	Osgood st.	compositor
ACHIN, WILLIAM	4	Butterfield st.	operative
ADAMS, ASBURY F.	36	Third st.	clerk
ADAMS, JOSEPH J.	8	Third st.	carpenter
ADAMS, CHARLES E.	218	Wilder st.	hardware
ADAMS, EDWARD E.	84	Middlesex st.	music teacher
ADAMS, ENOS H.	332	East Merrimack st.	shoe dealer
ADAMS, FRANK H.	90	Third st.	carpenter
ADAMS, JOHN M.	511	School st.	painter
ADAMS, MARK A.	43	Berkley av.	clerk
ADAMS, SAMUEL A.	1358	Varnum av.	farmer
ADAMS, WALTER S.	13	Read st.	machinist
AHLBERG, CHARLES A.	61	Lundberg st.	machinist

A

ALEXANDER, LOUIS	261	Gibson st.	tailor
ALLARD, J. OMAR	994	Moody st.	clerk
ALLEN, CHARLES O.	49	Twelfth st.	clerk
ALLEN, JOHN F.	9	Whiting st.	loom fixer
ALLEN, THOMAS O.	947	Middlesex st.	inspector of milk
ALLEN, WALTER M. N.	39	Elliot st.	machinist
ALWAY, CHARLES E.	3	East Pine st.	carpenter
AMADON, FRED C.	53	Washington st.	clerk
ANDERSON, CARL F.	60	Perry st.	dyer
ANDREWS, J. MUNN	452	East Merrimack st.	secretary
ANDERSON, JOHN A.	137	Stackpole st.	dyer
ANGELO, JAMES J.	51	Pond st.	piper
APPLETON, FRANCIS E.	59	Pine st.	paymaster
ARNOLD, WILLIAM A.	401	Beacon st.	clerk
ARTHUR, JAMES B.	31	Myrtle st.	gentleman
ASHWORTH, GEORGE L.	33	Rock st.	file cutter
ASHTON, HENRY W.	545	Middlesex st.	carpenter
ASPINWALL, JAMES M.	62	Andrews st.	student
ASQUITH, SAM	44	Barrington st.	clerk
ATHERTON, CHARLES S.	26	Tyler st.	baker
ATWOOD, FRANK S.	7	Whitney av.	buyer
ATWOOD, WALTER E.	194	Cross st.	electro plater
ATWOOD, EARL K.	1084	Bridge st.	beltmaker
ATWOOD, WILLIAM P.	17	Nineteenth st.	chemist
AUSTIN, JOHN G.	21	Smith av.	foreman
AUSTIN, FRED A.	39	Elliot st.	shoe maker
AUSTIN, CHARLES E.	90	Mt. Vernon st.	pianos
AUDETTE, JOSEPH	191	Salem st.	tanner
AVEYARD, CHARLES	25	Ware st.	superintendent

B

BABCOCK, HENRY E.	75	Bowers st.	salesman
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B

BACHELDER, GEORGE H.	210	Appleton st.	bicycles
BAILEY, HARRY L.	76	Fremont st.	merchant
BAILEY, JOHN A.	17	Columbia st.	agent
BAKER, FREDERICK W.	136	Myrtle st.	machinist
BAKER, HERBERT R.	24	W. Third st.	musician
BAKER, GEORGE N.	52	Hanks st.	manager
BAKER, J. AVISON	103	South Loring st.	music teacher
BALCOM, LON M.	175	Warwick st.	laborer
BALDWIN, EDWIN K.	92	Holyrood av.	bookkeeper
BALDWIN, FREDERICK G.	374	Beacon st.	bookkeeper
BALDWIN, JOHN D. S.	534	Merrimack st.	moulder
BANCROFT, JOHN J. JR.	14	Alder st.	cashier
BARCLAY, OSCAR R.	162	Smith st.	carpenter
BARKER, JOSEPH S.	538	Chelmsford st.	machinist
BARNARD, VIRGIL G.	68	Harvard st.	bookkeeper
BARNES, CHARLES O.	42	London st.	printer
BARNES, EDSON S.	43	Hamilton corp.	electrician
BARNES, HENRY W.	30	Huntington st.	tailor
BARON, CHARLES C.	88	Eleventh st.	clerk
BARR, WILLIAM A.	50	Burt st.	clerk
BARRETT, EDWARD J.	94	School st.	merchant
BARRY, PATRICK H.	294	Wentworth av.	clerk
BARSTOW, WALTER T.	7	Willie st.	clerk
BARTLETT, HAYWARD M.	2	West Eleventh st.	clerk
BARTLETT, HENRY	141	Nesmith st.	superintendent
BARTLETT, JOSEPH O.	15	Barclay st.	laborer
BARTLETT, ROBERT G.	78	Stevens st.	real estate
BARTLETT, WALTER E.	523	Fletcher st.	clerk
BARTLETT, WILLIAM T. S.	167	Varnum av.	hardware
BARTON, CYRUS	78	South Walker st.	contractor
BARRETT, ANDREW E.	77	Mt. Vernon st.	grocer
BARRETT, PATRICK	6	Whites Blk., Brookings st.	board'g h
BARRY, JAMES H.	91	Dutton st.	superintendent
BARRY, JOHN H.	15	Lombard st.	plumber
BASSETT, CYRUS R.	90	Andrews st.	operative

B

BATEMAN, JOHN F.	5	Stevens st.	surveyor
BEALS, HORACE P.	84	Marlborough st.	lumber dealer
BEALS, GEORGE M.	97	Jewett st.	harness maker
BEAN, HARRY C.	441	Worthen st.	clerk
BEAN, FRANK S.	26	Eleventh st.	merchant
BEAN, SYLVESTER	120	Methuen st.	contractor
BEANE, THOMAS J.	104	Pleasant st.	insurance
BEAULIEU, JOHN H.	202	Hildreth st.	grocer
BEAUCAGE, ARTHUR A.	114	Ford st.	ins. agent
BEAUREGARD, OLIVER J.	22	Wiggin st.	grocer
BILLINGSLY, FRED	178	Concord st.	clerk
BELLEFONTAINE, MILLER	782	Moody st.	furniture dealer
BELL, CHARLES W.	285	High st.	clerk
BELL, FRANK A.	56	Methuen st.	machinist
BENNETT, GEORGE A.	51	Marshall st.	roofer
BENNETT, JOHN C.	173	Branch st.	merchant
BOWERS, JOSEPH W.	518	Princeton st.	motorman
BREEN, PHILIP J.	9	Lyon st.	grocer
BRENNAN, JOHN J.	196	Concord st.	clerk
BRENNAN, OWEN E.	10	Kinsman st.	merchant
BRIEN, JAMES A.	124	Westford st.	furniture
BRIERLEY, EUGENE L.	74	South Loring st.	painter
BRIGHT, EDWARD W.	73	Fort Hill av.	clerk
BROCK, GREENLIEF C.	118	First st.	druggist
BROOKS, HENRY O.	17	Nicollet st.	civil engineer
BROTHERS, GEORGE W.	62	Royal st.	clerk
BROTHERS, WALTER A.	62	Royal st.	student
BROWN, CHARLES W.	185	Andover st.	druggist
BROWN, FRANK K.	321	High st.	wool buyer
BROWN, MALCOLM D.	517	Chelmsford st.	manufacturer
BROWN, MILON D.	295	Central st.	cigars
BROWN, NELSON	275	Gibson st.	gentleman
BROWN, OSCAR W.	50	Queen st.	janitor
BROWN, PHILIP P.	59	Second av.	coal dealer

B

BROWN, WALTER R.	182	Westford st.	civil engineer
BROWN, WILLIAM D.	150	Third st.	real estate
BROWN, WILLIAM H.	140	Hampshire st.	teamster
BROWN, FRED S.	12	Puffer st.	butcher
BRUNELLE, PIERRE, JR.	843	Moody st.	jeweler
BRYAN, THOMAS	24	Concord st.	leather worker
BUCKLEY, JOHN T.	118	Bartlett st.	painter
BURNS, JOHN F.	154	Perry st.	clerk
BURNS, MALACHI	88	Pleasant st.	gentleman
BURNS, JAMES F. JR.	427	Lakeview av.	machinist
BURNS, JOHN F.	427	Lakeview av.	Post Office
BRYANT, FRED A.	284	Pine st.	musician
BUCKLEY, GEORGE	190	High st.	motorman
BUCKLEY, WILLIAM F.	59	Keene st.	mechanic
BUCKLEY, JOHN	305	Summer st.	bookkeeper
BUGBEE, D. WEBSTER	63	Oakland st.	hay and grain
BULL, CHARLES H.	32	Second st.	carpenter
BURBANK, JOHN E.	29	Anne st.	merchant
BURBECK, FREDERICK A.	30	Sheldon st.	clerk
BUBECK, WILLIAM J.	32	Sheldon st.	milk dealer
BURGESS, EDWIN A.	16	John st.	news dealer
BURKE, EDWARD H.	112	Lewis st.	machinist
BURKE, EDWARD N.	216	Nesmith st.	superintendent
BURKE, MICHAEL J.	205	Lakeview av.	fireman
BURKINSHAW, JOSEPH	18	Bellevue st.	druggist
BURNS, EDWARD	154	Concord st.	wool sorter
BURNS, GEORGE E.	25	Eighteenth st.	clerk
BURKE, WILLIAM P.	30	Abbott st.	operative
BURNS, JOHN J.	607	Westford st.	clerk
BURRAGE, HERBERT D.	65	Harvard st.	clerk
BURRILL, JOHN F.	612	Beacon st.	clerk
BUTCHER, ROBERT J.	365	Wilder st.	superintendent
BUTLER, FRANK E.	400	Westford st.	pattern maker
BUTLER, FREEMAN H.	735	Varnum av.	druggist
BUTLER, JOSIAH	139	Stevens st.	clerk

B

BUTLER, THOMAS F.	2	Lowell pl.	machinist
BUTTERFIELD, ARTHUR D.	84	Forrest st.	printer
BYAM, OTIS	79	Canton st.	milkman
BYRNE, PATRICK J.	571	East Merrimack st.	coachman
BERGERON, ALBERT	5	Ellis ct.	laundry
BERNARD, ERNEST A.	2-502	Moody st.	barber
BERNIER, JOSEPH	65	Salem st.	laborer
BERRY, WALTER P.	64	Lane st.	door maker
BERTRAND, ARTHUR M.	24	Middle st.	tailor
BICKFORD, EDWIN S.	532	Westford st.	mill superintendent
BIGGS, JOHN	576	School st.	carpenter
BILL, FREEMAN M.	61	Eleventh st.	grocer
BISBEE, HERBERT L.	45	West Fifth st.	baker
BISHOP, HERBERT L.	28	May st.	clerk
BISSELL, WILLIAM E. K.	117	Third st.	salesman
BISSONNETTE, ZEPHRIN J.	60	Third av.	tel. operator
BIXBY, ALBERT J.	80	D st.	overseer
BIXBY, NEWTON	61	Bartlett st.	operative
BLACK, WILLIAM P.	47	Whipple st.	janitor
BLACKBURN, JOHN	71	London st.	plumber
BLAKE, JOHN H.	129	Fulton st.	belt maker
BLAKE, CHARLES L.	29	Anne st.	engraver
BLOOD, CHARLES W.	4	Robert st.	tinsmith
BLANCHARD, ISAAC H.	54	Grove st.	drug clerk
BLANCHARD, WILLIAM H.	54	Grove st.	mason
BLODGETT, EMERY F.	585	Clelmsford st.	bookkeeper
BOARDMAN, ALBERT W.	534	School st.	machinist
BOARDMAN, GEORGE H.	356	East Merrimack st.	clerk
BOARDMAN, WILLIAM W.	135	Liberty st.	real estate
BOISVERT, CHARLES H.	94	Lilley av.	baker
BOISVERT, JACQUES	363	Hildreth st.	real estate
BOOTH, JOHN J.	123	Railroad st.	laborer
BOSWORTH, GEORGE A.	256	School st.	clerk
BOUGHTON, JOHN L.	308	Thorndike st.	teamster
BOUCHER, THOMAS E.	65	Hampshire st.	clerk

B

BOUDREAU, JOHN B.	24	Crawford st.	laborer
BOULAIS, ARTHUR N.	23	Crawford st.	clerk
BOULGER, JOHN B.	74	Wentworth av.	clerk
BOULGER, THOMAS P.	74	Wentworth av.	shoe dealer
BOWEN, FRANK A.	43	Gates st.	superintendent
BOWERS, DUNCAN V.	453	Lawrence st.	grocer
BOX, JOHN W.	7	Lyon st.	laborer
BOYERS, JOHN	12	Albion st.	loom fixer
BOYLE, JAMES H.	110	Congress st.	laborer
BOYLE, JOHN F.	32	Whipple st.	clerk
BOYLE, JOHN L.	rear 110	Congress st.	machinist
BOYLE, TMOMAS H.		Washington Tavern	liquor dealer
BOYNTON, D. RAYMOND	180	Pawtucket st.	grocer
BRACKETT, ALBERT W.	71	Middlesex st.	overseer
BRADEN, THOMAS H.	118	Branch st.	manager
BRADLEY, EDWARD	117	Crosby st.	laborer
BRADLEY, RAYMOND D.	62	Rock st.	teamster
BRADT, DAVID H.	125	Mt. Vernon st.	baker
BRADT, GERRITT J.	523	Fletcher st.	baker
BRADY, JOHN F.	16	So. Highland st.	clerk
BRADY, PETER J.	16	So. Highland st.	merchant
BRASSILL, DENNIS	58	Walnut st.	operative
BRAY, RICHARD	12	Pollard st.	superintendent
BRAZER, RALPH F.	46	Fairmount st.	merchant
BREEN, FRANK C.	67	Midland st.	dealer
BREEN, JOHN P.	9	Lyon st.	operative

C

CADDELL, PETER	17	Caddell av.	carpenter
CADDELL, WILLIAM	557	Chelmsford st.	shipper
CADY, ALFRED S.	90	Dover st.	engineer

C

CADY, GEORGE L. JR.	150	Mt. Vernon st.	manufacturer
CADY, HARRY F.	577	School st.	real estate
CAHILL, MICHAEL J.	389	High st.	horseshoer
CALDERWOOD, WILLIAM	434	High st.	cigars and tobacco
CALLAHAN, PHILIP H.	82	Beacon st.	paper hanger
CAMPBELL, GEORGE	1368	Gorham st.	butcher
CAMPBELL, JAMES L.	83	Queen st.	salesman
CAMBRIDGE, FERNANDO U.	133	Grove st.	agent
CARNEY, OWEN J.	20	Market st.	Hotel keeper
CAROLAN, FRANK	256	Concord st.	dealer
CARON, HORACE E.	37	Fifth av.	telegrapher
CARPENTER, HENRY	27	Ellis ct.	operative
CARPENTER, W. IRVING	28	South Whipple st.	dealer
CARPENTER, PHILIPPE	16	Dempsey pl.	operative
CARRIGG, JOHN J.	18	Second st.	clerk
CARROLL, DANIEL F.	118	South Highland st.	plumber
CARSON, GEORGE		Middlesex yard	watchman
CARTER, ALBERT D.	105	Moore st.	manufacturer
CARTER, JOHN T.	97	Hastings st.	cabinet maker
CASEY, GEORGE W.	45	Willow st.	tanner
CASEY, JAMES B.	87	Summer st.	bookkeeper
CASEY, THOMAS P.	87	Moore st.	brewery
CASHIN, CHARLES E.	156	Wilder st.	machinist
CASSIDY, JOHN J.	263	Thorndike st.	machinist
CASWELL, JOHN A.	26	Second st.	optician
CAWLEY, EDWARD, ...	85	Rogers st.	coal dealer
CHASE, FRED A.	19	Nesmith st.	librarian
CHASE, WALTER I.	353	Walker st.	bookkeeper
CAVERLY, HAROLD	68	Fifth st.	clerk
CHADWICK, ALFRED M.	87	Fort Hill av.	superintendent
CHADWICK, CHARLES H.	1354	Gorham st.	salesman
CHALIFOUX, EDWARD E.	305	Summer st.	salesman
CHALIFOUX, JOSEPH L.	377	Wilder st.	merchant
CHAMBERS, JOHN H.	942	Central st.	laborer
CHANDLER, JOHN A.	310	Westford st.	watchman

C

CHARLTON, RICHARD	538	Westford st.	designer
CHARTERS, REUBEN P.	112	Congress st.	watchman
CHASE, ERNEST D.	30	Hawthorne st.	designer
CHASE, FRANK K.	894	Moody st.	clerk
CHASE, GEORGE A.	36	Canton st.	superintendent
CHASE, HOWARD E.	237	Foster st.	machinist
CHATFIELD, FRANK B.	334	Stevens st.	clerk
CHENEY, EDMUND J.	19	Grove st.	hairdresser
CHENEY, EDWARDS	679	School st.	clerk
CHENEY, FRANK P.	1099	Middlesex st.	box mfr.
CHENEY, ARTHUR L.	19	Grove st.	draughtsman
CHEVALIER, EDWARD	539	Moody st.	clerk
CHILDS, EDWARD L.	62	South Walker st.	overseer
CHOATE, ALBERT H.	509	Beacon st.	clerk
CHURCH, CHARLES L.	126	Walker st.	foreman
CLARK, AVERY B.	33	Anne st.	superintendent
CLARK, CHARLES E.	1	McGovern's ct.	clerk
CLARK, CORNELIUS E.	228	High st.	machinist
CLARK, JOHN A.	295	Central st.	clerk
CLARK, MARION S.	203	Gibson st.	cashier
CLARK, OWEN W.	13	Tremont corp.	clerk
CLARK, T. FRANK	129	East Merrimack st.	collector
CLAY, HENRY	31	Race st.	box maker
CLAY, MILO D.	411	School st.	painter
CLEARY, DANIEL	47	Swift st.	plasterer
CLEE, WILLIAM	8	Wachusett st.	weaver
CLEMENT, DANIEL W.	514	School st.	clerk
CLIFFORD, CHARLES T.	99	Westford st.	dentist
CLIFFORD, EVERETT A.	20	Lane st.	clerk
CLIFFORD, WARREN	252	High st.	dyer
CLOUGH, CHARLES H.	52	Birch st.	clerk
CLUER, ARTHUR H.	3	Wachusett st.	harness dealer
CLUIN, JOHN J.	130	Fort Hill av.	jeweler
CLUNE, PETER J.	39	Groves av.	barber
COBURN, ARTHUR S.	49	Oak st.	clerk

C

COBURN, CHARLES H.	187	Nesmith st.	merchant
COBURN, CLARENCE G.	215	Mammoth road	grocer
COBURN, FREDERICK W.	187	Nesmith st.	merchant
COBURN, GEORGE B.	15	Alder st. ..	real estate and insurance
COBURN, HARRY W.	145	Beacon st.	dentist
COBURN, LAURENS W.	204	Cross st.	clerk
COBURN, WALTER S.	45	Talbot st.	manufacturer
COGNAC, EMERY	497	Moody st.	clerk
COGGER, WILLIAM	82	Parkview av.	clerk
COGGESHALL, FRED H.	38	Nichols st.	clerk
COLE, JOHN W.	27	Durant st.	steward
COLEMAN, JOSEPH, H.	65	Fulton st.	clerk
COLLINS, DANIEL	39	Lyon st.	laborer
COLLINS, JOHN	27	Franklin ct. north	painter
COLLINS, CORNELIUS A.	124	Dummer st.	clerk
COMMERFORD, EDWARD J.	490	Moody st.	clerk
CONANT, CHARLES H. JR.	74	Huntington st.	bank clerk
CONANT, FREDERICK	253	Gibson st.	manager
CONANT, ARTHUR J.	123	Nesmith st.	dealer
CONATION, PETER F.	43	Marlborough st.	plumber
CONDON, JOHN H.	96	Midland st.	janitor
CONLEY, JOHN F.	25	Chestnut st.	plumber
CONLAN, PATRICK	339	Concord st.	contractor
CONLEY, LEANDER F.	69	Tolman av.	overseer
CONLEY, MARTIN F.	7	Richmond st.	barber
CONNELL, RICHARD J.	23	Walnut st.	printer
CONNERS, EDWARD F.	163	Plain st.	merchant
CONNERS, PHILIP P.	459	Chelmsford st.	merchant
CONNOLLY, MICHAEL H.	124	First st.	clerk
CONNOR, BERNARD A.	603	Broadway	laborer
CONNORS, CHARLES A.	312	Market st.	foreman Tel. Co.
CONROY, JOHN F.	55	Willow st.	St. Ry. conductor
CONROY, ROBERT F.	17	Kirk st.	operative
COOKE, CHARLES E.	182	Smith st.	elevator
COONEY, DENNIS J.	25	Auburn st.	laborer

C

COOPER, HENRY C.	46	Talbot st.	furniture
COOTE, SAMUEL J.	308	High st.	clerk
COPE, EDWIN	342	Pawtucket st.	trader
CORBETT, JOHN H.	14	Burns st.	merchant
CORBETT, MICHAEL	32	Highland st.	dealer
CORCORAN, JOSEPH F.	40	Fort Hill av.	printer
CORLISS, AMMI L.	9	Methuen st.	machinist
CORWIN, HARRY J.	25	Huntington st.	clerk
COSTELLO, THOMAS F.	293	Nesmith st.	plumber
COTTON, ARTHUR W.	73	Third st.	machinist
COTTHAUS, OTTO J.	146	Jewett st.	barber
COUGHLIN, JEREMIAH	259	Concord st.	gardner
CORLISS, JOSEPH H.	6	Elliot st.	second hand
CRONAN, FREDERICK	34	Lagrange st.	machinist
COURTNEY, PATRICK	11	Marsh st.	retired
COX, PATRICK J.	150	Charles st.	operative
COX, SIMON, ...	27	Hoyt av.	shoemaker
COX, TERRENCE J.	81	Bartlett st.	barber
COX, WILLIAM H.	348	Stackpole st.	painter
CRAIG, JOSEPH	8	Robinson st.	B. & M. R.R.
CRANE, EUGENE F.	425	Central st.	clerk
CREVIER, CHARLES	284	Salem st.	blacksmith
CROMPTON, JOHN	44	Varnum st.	printer
CROSBY, FREDERICK H.	111	Moore st.	mason
CROSBY, BURTON H.	111	Moore st.	mason
CROSS, FRANK R.	31	Princeton st.	clerk
CROSS, WINFIELD	68	Varnum st.	janitor
CROWLEY, DENNIS J.	112	Walker st.	clerk
CROWLEY, PATRICK H.	131	Fletcher st.	laborer
CROWLEY, ROBERT E.	115	Fort Hill av.	agent
CRYAN, THOMAS E.	270	Adams st.	conductor
CRYSLER, H. STANLEY	20	Phillips st.	architect
CUFF, JOHN H.	18	Agawam st.	shuttle maker
CUFF, THOMAS F.	18	Agawam st.	dentist
CUMMINGS, FRANK G.	187	Varnum av.	box maker

C

CUMMISKEY, ARTHUR J.	165	Branch st.	clerk
CUMMISKEY, JOHN J.	14	Whipple st.	laborer
CURRY, JAMES	105	Tremont st.	steam fitter
CURTIN, JOHN J.	122	Chapel st.	clerk
CURTIS, CHARLES E.	433	Central st.	machinist
CURTIS, RICHARD J.	514	East Merrimack st.	barber
CUSTY, PATRICK J.	96	Mt. Washington st.	tinsmith
CUTLER, JOHN S.	840	Varnum av.	barber
CUTTING, LAWRENCE F.	124	Methuen st.	clerk

D

DAIGLE, HENRI	43	Beaver st.	operative
DAIGNEAULT, OSCAR J.	466	Merrimack st.	hairdresser
DAINTON, WILLIAM A.	158	Avon st.	insurance agent
DALEY, PETER	203	Broadway	operative
DALEY, WILLIAM	11	Mill st.	barber
DALY, FRANK W. S.	585	School st.	clerk
DALY, JEREMIAH	211	Fletcher st.	insurance agt.
DALY, JOHN W.	76	Andrews st.	clerk
DANA, HARRY C.	365	Worthen st.	machinist
DANAHY, FRANK J.	33	State st.	plasterer
DANAHY, JOHN J.	22	Crowley st.	tinsmith
DANAHY, WILLIAM H.	347	Market st.	clerk
DANFORTH, FRANK L.	81	Fremont st.	machinist
DAILEY, JOHN	159	Chapel st.	operative
DANE, GEORGE F.	53	Oakland st.	B. & M. R. R.
DANIELS, JOHN S.	558	Chelmsford st.	farmer
DAVID, ALBERT W.	234	Gibson st.	clerk
DAVIDSON, WILLIAM	187	Mammoth road	mason
DAVIS, CHARLES F.	30	Cabot st.	shoe shop
DAVIS, NATT A.	80	Howard st.	clerk

D

DAVIS, PRENTISS T.	38	Ludlam st.	operative
DAWSON, JAMES	84	South Whipple st.	paper hanger
DAWSON, JOSEPH F.	9	Whipple st.	plumber
DEAN, SIMON	174	Crosby st.	clerk
DEANS, WILLIAM G. ¹	144	Winthrop av.	mason
DEGE, HANS C.	10	Parkview av.	dyer
DEARBORN, CHARLES O.	31	Barclay st.	clerk
DEARTH, ALBERT E.	12	Broadway	machinist
DELMAGE, WILLIAM A.	30	Third st.	janitor
DENAULT, HUBERT	749	Merrimack st.	pianos
DENNETT, ALVANUS M.	57	Fourth st.	pawnbroker
DENNIS, JOHN N.	275	Summer st.	manufacturer
DERBY, FRANK H.	223	Pine st.	electrician
DERBY, LUCIUS A.	148	First st.	electrician
DREWETT, FRANK	215	Moore st.	clerk
DESLANDES, AMBROSE	65	Branch st.	barber
DESMARAIS, PHILIP	37	Second av.	clerk
DEVINE, PATRICK F.	67	Parkview av.	trunk maker
DEVINE, PHILIP	61	Chapel st.	moulder
DEVLIN, JAMES P.	43	Willow st.	printer
DEVOLL, ANDREW J.	53	Thirteenth st.	salesman
DEWAR, DAVID W.	364	Beacon st.	cashier
DEXTER, OREL K.	20	Starbird st.	blacksmith
DEXTRA, JOSEPH	534	Merrimack st.	barber
DICKERMAN, WILLIAM O.	74	Bellevue st.	clerk
DICKEY, MANLEY L.	125	Branch st.	carpenter
DICKEY, THOMAS L.		Porter Terrace	insurance agent
DICKSON, DAVID	142	Smith st.	tea dealer
DILLON, JOHN F.	323	Concord st.	clerk
DILWORTH, DENNIS	44	Merrill st.	overseer
DOHERTY, HENRY P.	93	Adams st.	painter
DOHERTY, JAMES F.	8	Grove st.	foundry
DOHERTY, WILLIAM C.	1079	Middlesex st.	foundryman
DOLE, ALBERT F.	595	Westford st.	slater
DONAHUE, CORNELIUS F.	62	Chambers st.	clerk

D

DONLAN, JOHN	81	Prince st.	weaver
DONNELLY, JOHN P.	36	Floyd st.	horseshoer
DONOHUE, ANDREW	49	Keene st.	merchant
DONOHUE, MICHAEL J.	3	Brooks st.	machinist
DONAHOE, MICHAEL	979	Central st.	machinist
DONOVAN, WILLIAM H.	26	Madison st.	dealer
DOSTALER, ALPHONSE	24	Decatur st.	clerk
DOUGLASS, HARRY P.	37	Hurd st.	overseer
DOW, GEORGE P.	36	Lilley av.	plumber
DOWD, MICHAEL J.	27	Harrison st.	insurance
DOWNS, EARL C.	14	Porter st.	clerk
DOYLE, DANIEL P.	6	Browns ct.	laborer
DOZOIS, HILAIRE	179	School st.	overseer
DRAINVILLE, AIME	25	James st.	shoemaker
DREWETT, SIDNEY	139	Hildreth st.	trunk dealer
DRINAN, GEORGE	17	Burt st.	clerk
DRURY, HARRY S.	44	Hanks st.	plumber
DUBE, JOSEPH JR.	353	Bridge st.	teamster
DUBUQUE, GEORGE H.	65	Branch st.	clerk
DUFF, JOHN J.	15	Auburn st.	clerk
DUMAS, ERNEST G.	55	Huntington st.	bookbinder
DUNFEY, JOHN M.	109	Mammoth road	real estate
DUNKLEE, HARRY W. F.	190	Pawtucket st.	draftsman
DUNLAP, HARRY	116	Hanks st.	merchant
DUNN, JAMES J.	882	Gorham st.	stone cutter
DUPONT, EXADIUS	447	Moody st.	gentleman
DURANT, CHARLES W.	74	Chapel st.	engraver
DURSTHOFF, CHARLES C.	102	South Whipple st.	overseer
DUTTON, WALTER L.	11	Third av.	foreman
DWYER, JOHN F.	4	Oak st.	painter

E

EAGAN, MICHAEL E.	113	Pleasant st.	laundry
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E

EAMES, MELVIN	32	West Sixth st.	pattern maker
EASTMAN, HENRY F.	327	East Merrimack st.	draughtsman
EASTMAN, RAYMOND W.	18	May st.	operative
EATON, CHARLES W.	108	Myrtle st.	broker
EATON, DANIEL A.	107	Myrtle st.	insurance clerk
EATON, ROBERT H.	12	Nesmith st.	asst. treasurer
EGAN, MICHAEL J.	99	Lilley av.	merchant
ELLINGWOOD, EDWARD	56	Huntington st.	druggist
EMERSON, FRED B.	29	Burt st.	treasurer
ELLIOTT, ROBERT H.	25	Fairview st.	clerk
EMMOTT, WALTER H.	106	Westford st.	paymaster
EMSLEY, GEORGE	20	Weed st.	comb maker
ENRIGHT, CORNELIUS F.	295	Thorndike st.	painter
ERSKINE, CHARLES M.	138	Mt. Vernon st.	real estate
ESTABROOK, HOWARD M.	65	Tolman av.	clerk
ESTABROOK, OLIVER B.	264	Appleton st.	trimmer
ESTES, FRED A.	35	Burt st.	clerk
EVANS, FRED A.	4	Astor st.	salesman
EVANS, FRED F.	1354	Gorham st.	grocer
EVANS, FREDERICK	9	Blossom st.	marble cutter
EVANS, GEORGE C.	239	Liberty st.	hay and grain dealer
EVANS, LEONARD JR.	30	Parkview av.	mechanic

F

FAGAN, FRANCIS M.	18	Newhall st.	clerk
FAGAN, JAMES M.	18	Newhall st.	fruit dealer
FAGAN, JOHN H.	18	Newhall st.	janitor
FAIRBURN, GEORGE	384	High st.	provisions
FALLON, FRANK J.	11	Little st.	machinist
FARLEY, HARRY P.	119	Pleasant st.	clerk
FARLEY, HUGH F.	39	Whipple st.	clerk

F

FARLEY, JOSEPH	rear 561	Lawrence st.	barber
FARRELL, JOHN J.	127	Cross st.	machinist
FARRINGTON, WILLIS	234	Nesmith st.	manufacturer
FAULKNER, FRANCIS E.	34	Marion st.	clerk
FAULKNER, JOHN A.	52	Mansur st.	manufacturer
FAVREAU, WILLIAM A.	537	Moody st.	clerk
FAY, EDGAR G.	5	Robbins st.	clerk
FAY, FREDERICK T.	371	East Merrimack st.	druggist
FAY, HENRY J.	70	Lawrence st.	salesman
FAY, JOSEPH F.	1	Mt. Pleasant st.	farmer
FAY, PAUL F.	99	So. Walker st.	machinist
FECTION, ALEXIS F.	740	Merrimack st.	bookkeeper
FEE, THOMAS F.	158	Concord st.	tailor
FELLOWS, LUCIAN B.	8	Coral st.	painter
FELLS, MAX W.	989	Lakeview av.	clerk
FELTON, HENRY F.	386	Andover st.	organist
FENDERSON, CHARLES H.	429	Worthen st.	machinist
FENNELL, NICHOLAS J.	178	West London st.	barber
FERRIN, GEORGE W. JR.	26	Lane st.	operative
FIELD, ALBERT L.	1057	Gorham st.	druggist
FIFE, JAMES	46	Merrill st.	machinist
FIFIELD, GEORGE W.	1180	Middlesex st.	manufacturer
FINNERTY, HUGH	175	Church st.	laborer
FINNERTY, PATRICK J.	58	Church st.	laborer
FITZGERALD, PATRICK	169	Broadway	clerk
FITZGIBBON, PATRICK	619	Gorham st.	shoemaker
FLANAGAN, FRANK P.	22	Westford st.	clerk
FLANDERS, CHARLES H.	8	Osgood st.	foreman
FLEMING, JAMES H.	92	John st.	operative
FLEMING, SAMUEL	75	Hampshire st.	janitor
FLEMINGS, FREDERICK J.	393	High st.	paper dealer
FLEMINGS, JAMES F.	35	Oak st.	clerk
FLETCHER, BENJAMIN	129	Church st.	agent
FLETCHER, BENJAMIN HILL	125	Fulton st.	mechanic
FLETCHER, EDWIN L.	81	Holyrood av.	wholesale grocer

F

FLOOD, JAMES H.	230	High st.	clerk
FLOOD, TERRENCE E.	61	Pleasant st.	operative
FLYNN, EDMUND	28	North st.	butcher
FLYNN, EUGENE F.	522	Lawrence st.	finisher
FLYNN, SIMON	205	Cross st.	machinist
FLYNN, JAMES A.	12	Cedar st.	printer
FOISEY, JOSEPH A.	327	Hildreth st.	baker
FOLSOM, FRED P.	154	Shaw st.	clerk
FOLSOM, HENRY W.	77	Mt. Vernon st.	overseer
FORTIN, ANTOINE	R 417	Moody st.	clerk
FOSTER, BENJAMIN F.	3	B st.	second hand
FOSTER, FRED A.	14	Royal st.	overseer
FOSTER, HIRAM A.	177	Tremont st.	machinist
FOSTER, QUINCY A.	41	D st.	blacksmith
FOX, THOMAS H.	427	Chelmsford st.	machinist
FOYE, FRANK J.	469	Pine st.	clerk
FOY, JOHN J.	23	Burlington av.	clerk
FRASER, ALLAN	13	McKinley av.	clothing
FRAWLEY, HENRY J.	697	Middlesex st.	knitter
FRECHETTE, WILFRED	120	Aiken st.	merchant
FREDERICK, CHARLES B.	69	Fort Hill av.	tailor
FREEMAN, CHARLES T.	648	Broadway	grocer
FREEMAN, JAMES E.	83	Andrews st.	grocer
FRENCH, ALBERT F.	213	Parkview av.	clerk
FRENCH, ARTHUR J.	35	Victoria st.	paper cutter
FROST, CHANNING A.	1677	Middlesex st.	dealer
FRYE, AUSTIN A.	105	Eighteenth st.	clerk
FULLER, GEORGE B.	1524	Gorham st.	lumber
FULLER, JOSEPH F.	258	East Merrimack st.	agent

G

GAGNON, ARTHUR J.	466	Merrimack st.	dentist
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C

GAHAGAN, EDWARD W.	205	Church st.	clerk
GAHAGAN, JAMES F.	205	Church st.	plumber
GALE, CHARLES A.	23	Jenness st.	clerk
GALLAGHER, CHARLES A.	11	Phebe av.	operative
GALLAGHER, JAMES J.	168	Cumberland Road	cigars
GALLAGHER, JOHN J.	58	Third st.	operative
GALLAGHER, PETER	rear 85	Lakeview av.	hair dresser
GALLAGHER, THOMAS J.	1	Hampshire pl.	J. C. Ayer Co.
GALLAGHER, WILLIAM H.	128	Ennell st.	insurance agent
GARDNER, MILES G.	497	School st.	clerk
GARMON, JOSEPH A.	76	Nineteenth st.	J. C. Ayer Co.
GARVEY, MICHAEL J.	203	Broadway	liquor dealer
GARVEY, THOMAS F.	75	Aiken av.	clerk
GATES, HENRY K.	400	East Merrimack st.	coal dealer
GATES, ROYAL W.	75	Gates st.	belt manufacturer
GERRY, EDGAR A.	27	Humphrey st.	express manager
GENEST, ARTHUR	111	Genoa av.	contractor
GEORGE, FRED A.	128	Hale st.	foreman
GIBSON, THOMAS	22	Lane st.	operative
GILBERT, FRANZ S.	50	Laurel st.	overseer
GILBRIDE, JOHN J.	9	Prospect st.	laborer
GILL, EDMOND J.	772	Merrimack st.	machinist
GILMAN, ALBERT I.	20	East Pine st.	lumber surveyor
GILMORE, ELBERT J.	94	Vernon st.	clerk
GILLESPIE, JOHN T.	110	Durant st.	clerk
GILLIGAN, JAMES	16	Kinsman st.	currier
GILMORE, WILLIAM H.	3-3	Watson av.	shoe cutter
GILLOGLEY, OWEN	27	Walnut st.	laborer
GILLON, HUGH F.	84	Bartlett st.	editor
GILLOW, JOSEPH S.	258	Wentworth av.	contractor
GILMORE, ROBERT J.	95	Jenness st.	railroad
GILMORE, WILLIAM	39	Walnut st.	clerk
GINTY, PHILIP	1017	Central st.	slater
GODDARD, CHARLES R.	30	Marlborough st.	paymaster

G

GOING, RUSSELL S.	51	Marginal st.	cashier
GOLDBERG, BERNARD	1	Elm pl.	spinner
GOLDENBERG, SALEM	1	Ralph st.	merchant
GOOCH, MELVIN G.	661	Broadway	carpenter
GOODALL, SAMUEL	417	Dutton st.	watchman
GOODELL, HARLAN P.	14	Highland st.	dealer
GOODWIN, CHESTER S.	880	Gorham st.	finisher
GOOKIN, JAMES	300	Concord st.	furniture dealer
GORDON, JOHN G.	17	Loring st.	clerk
GORDON, ROBERT S.	54	Grand st.	foreman
GORMAN, JAMES E.	412	Gorham st.	boots and shoes
GORMLEY, EDWARD F.	31	Washington st.	clerk
GORMLEY, JOSEPH H.	11	Lyon st.	clerk
GOULD, SUMNER S.	112	Fremont st.	manager
GOULDING, WILLIAM H.	123	Walker st.	slater
GOULET, JOSEPH W.	93	Lilley av.	baker
GOWARD, EDWARD T.	274	Appleton st.	gentleman
GRADY, JOHN J.	492	Market st.	clerk
GRADY, WILLIAM S.	151	Rogers st.	dealer
GRANDCHAMP, NAPOLEON C.	12	Arthur av.	clerk
GRANT, ALFRED T.	34	Willie st.	machinist
GRAY, ALANSON	18	Belmont st.	provision dealer
GRAY, ANDREW A.	19	Tolman av.	clerk
GRAY, ARTHUR L.	39	Burt st.	agent
GRAY, FRANK	76	Royal st.	clerk
GRAY, HARRY	93	Dover st.	grocer
GRAY, JAMES H.	23	Ellsworth st.	lather
GRAY, JAMES J.	19	Tolman av.	salesman
GRAY, JOHN J.	236	Plain st.	real estate
GRAY, MICHAEL J.	10	Kinsman st.	clerk
GRAY, PETER B.	71	Whipple st.	carpenter
GREATHEAD, SAMUEL A.	519	Broadway	clerk
GREEN, ALBERT H.	157	Dartmouth st.	draughtsman
GREEN, GEORGE P.	359	Walker st.	plumber
GREEN, JOSEPH A.	150	Wilder st.	merchant

C

GREEN, LORIN	179	Warwick st.	railroad
GREEN, THOMAS A.	501	Gorham st.	lamplighter
GREENE, HARVEY B.	73	Marlborough st.	florist
GREENE, WILLIAM H.	396	Pine st.	automobiles
GREENWOOD, OTHELLO O.	180	Hale st.	dealer
GREENWOOD, HAMLET S.	12	Wilsendale pl.	clerk
GREGG, JOHN	112	Jackson st.	overseer
GREIG, WILLIAM M.	201-3	Appleton st.	printer
GREGOIRE, DAVID S.	9	Coral st.	baker
GRIFFIN, JOHN	161	Merrimack corp.	laborer
GRIMARD, ARTHUR J.	118	Merrimack st.	clerk
GRIMWOOD, ARTHUR C.	50	Puffer st.	clerk
GROVER, CHARLES F.	255	Branch st.	tel. manager
GROVER, FRED H.	123	Third st.	surveyor
GROVER, HERBERT E.	128	Third st.	barber
GUILD, ALBERT S.	26	Arlington st.	broker
GUINEY, WILLIAM	8	Crane av.	dealer
GUIMOND, JOSEPH E.	497	Moody st.	bookkeeper
GRIMARD, EUGENE J.	56	Butterfield st.	clerk
GUMB, HARRY M.	28	Anderson st.	stone cutter

H

HAGAN, JAMES J.	142	Church st.	machinist
HALL, CHARLES O.	526	Moody st.	provisions
HALL, THALLES P.	149	Stackpole st.	real estate
HALLORAN, DAVID H.	167	Pleasant st.	clerk
HALLORAN, DANIEL C.	546	East Merrimack st.	gardener
HALLOWELL, CHARLES E.	743	Bridge st.	machinist
HAM, HIRAM O.	184	School st.	carpenter
HAMEL, ALFRED	994	Moody st.	machinist
HAMILTON, AMASA S.	38	Race st.	express

H

HAMILTON, CHARLES A.	11	Sixth st.	cabinet maker
HANSBURY, JAMES W.	29	Hastings st.	machinist
HANSON, HORACE R.	336	Worthen st.	machinist
HANSON, JAMES S.	584	Westford st.	trader
HAPGOOD, EDGAR	221	High st.	manufacturer
HAPGOOD, FRANK W.	181	Mt. Vernon st.	machinist
HARDEN, ALBERT K.	11	Read st.	clerk
HARDY, ELMER E.	135	Liberty st.	janitor
HARDY, WILLIAM	4 rear	369 Central st.	boarding house
HARRIGAN, GEORGE M.	61	Marlborough st.	banker
HARRIGAN, WILLIAM H.	38	South Walker st.	clerk
HARRINGTON, JOHN F.	99	Pleasant st.	weaver
HARRINGTON, JOHN H.	119	Fremont st.	publisher
HARRINGTON, JOHN J.	93	John st.	operative
HARRIS, ARTHUR W.	273	High st.	merchant
HARRIS, EUGENE A.	659	School st.	real estate
HARRISON, HARRY	24	Arthur st.	machinist
HART, DANIEL J.	84	School st.	baker
HARTWELL, CHARLES C.	109	Fourth av.	clerk
HASTINGS, JAMES S.	20	Barchay st.	decorator
HAWES, WILLIAM H.	59	Canton st.	merchant
HAYES, DANIEL	278	Central st.	motorman
HAYES, JEREMIAH J.	66	Walker st.	operative
HAYNES, FRANK H.	430	Wilder st.	provision dealer
HEALEY, JOSEPH P.	26	Swift st.	clerk
HEBERT, SAMUEL P.	23	Adams st.	grocer
HEERY, JAMES W.	80	Parkview av.	real estate
HEMINGWAY, JOSEPH H.	139	Methuen st.	gentleman
HERSEY, FREEMAN S.	123	Warwick st.	machinist
HENDRICKS, JOHN T.	296	Tanner st.	laborer
HERRICK, JOSEPH S.	811	Central st.	dealer
HESELTON, HEREBRT E.	398	Middlesex st.	brush mfr.
HICKEY, CORNELIUS L.	20	Kinsman st.	spinner
HICKS, JOSEPH	71	Westford st.	clerk

H

HIGGINS, DANIEL J.	132	Church st.	operative
HIGGINS, PATRICK	17	Walnut st.	machinist
HIGGINS, TERRENCE F.	245	Concord st.	machinist
HIGGINS, WESLEY R.	82	Read st.	painter
HILL, EDGAR M.	16	Cottage st.	reporter
HILL, JAMES E.	94	Midland st.	inspector
HILL, JAMES G.	24	Myrtle st.	carriage mfgr.
HILLIARD, ASA B.	59	Royal st.	foreman
HOBSON, CHARLES H.	26	Hanks st.	manager
HOGAN, DANIEL E.	30	Fort Hill av.	bookkeeper
HOLDEN, GEORGE B.	363	Walker st.	assistant superintendent
HOLGATE, BENJAMIN	154	Avon st.	clerk
HOLGATE, SAMUEL	46	Bowditch st.	second hand
HOLLAND, WALTER H.	32	Pine Hill st.	mattress maker
HOLMES, CHRISTOPHER	16	Belrose av.	merchant
HOLT, WILLIS S.	8	Hale st.	clerk
HOOLE, HENRY	66	Bartlett st.	machinist
HORNBY, JAMES T.	41	Madison st.	clerk
HORNBY, WILLIAM A.	41	Madison st.	iron moulder
HORNER, JOHN P.	353	Westford st.	corset manf.
HOSMER, SAMUEL	67	Cambridge st.	overseer
HOWARD, JAMES H.	19	Ellsworth st.	folder
HOWARTH, CHARLES A.	32	Prospect st.	designer
HOWE, ALFRED T.	4	Eighth av.	crayon manf.
HOWE, EDWARD S.	981	Varnum av.	farmer
HOWE, FRANK W.	85	Fairmount st.	broker
HOWE, HENRY W. J.	4	Eighth av.	real estate
HOWE, WALTER H.	315	Summer st.	real estate
HOWELL, WAKEFIELD D.	225	Summer st.	clerk
HOYT, FRANK	139	A st.	shoe dealer
HULL, GEORGE S.	17	Oakland st.	manufacturer
HUMPHRISS, FREDERICK G.	19	Crowley st.	weaver
HUNKING, ARTHUR W.	374	Stevens st.	civil engineer
HUNT, FRANK S.	44	Royal st.	clerk
HUNT, LEONARD D.	234	Cabot st.	overseer

H

HUNT, WILLIAM F.	125	Stackpole st.	loom fixer
HUNTER, JAMES F.	111	Liberty st.	barber
HUNTON, LOUIS G.	263	Appleton st.	clerk
HURD, FRANK W.	19	Harrison st.	treasurer
HUTCHINSON, HENRY C.	184	School st.	pattern maker
HYDE, DANIEL	436	Worthen st.	machinist
HYDE, MARTIN	5	Floyd st.	sash maker
HYLAN, EDWIN J.	28	Nesmith st.	manufacturer
HYLAN, EUGENE S.	28	Nesmith st.	manufacturer
ILSLEY, PHILIP H.	513	Westford st.	trade
INGHAM, FRANK B.	3	Osgood st.	bookkeeper

I

IRELAND, WILLARD F.	775	Broadway	machinist
IRVING, WILLIAM J.	rear 28	Walnut st.	weaver
IRWIN, JOHN M.	83	Pine st.	wholesale confectioner

J

JACOBS, HENRY H.	119	Fulton st.	carpenter
JACOBS, HERBERT M.	176	Westford st.	carpenter
JACQUES, GEORGE D. JR.	55	Rock st.	machinist
JALBERT, JOSEPH	100	Fourth av.	contractor
JAMESON, FRANK E.	59	Emery st.	foreman
JAMESON, JAMES	139	Concord st.	machinist
JAQUES, SILAS H.	120	Walker st.	clerk
JEFFERS, GEORGE B.	15	Pollard st.	operative
JENNESS, FRED W.	710	Chelmsford st.	dealer
JENNISON, GEORGE H.	45	Kirk st.	dentist

J

JENSEN, OTTO	9	Loring st.	moulder
JOHNSON, ALFRED H.	208	French st.	cigar maker
JOHNSON, FRANCIS	494	Lawrence st.	dealer
JOHNSON, FRANKLIN E.	19	Robbins st.	clerk
JOHNSON, HENRY J.	328	Suffolk st.	clerk
JOHNSON, ISAAC G.	317	Chelmsford st.	carpenter
JOHNSON, MICHAEL J.	328	Suffolk st.	musician
JOHNSON, THOMAS J.	23	Lombard st.	bookkeeping
JOHNSON, WILLIAM J.	47	Kirk st.	milliner
JONES, EDWARD A.	342	Walker st.	machinist
JOY, CALVIN L.	584	Bridge st.	carpenter

K

KANE, PATRICK F.	37	Elm st.	grocer
KEARNEY, JOHN	312	Market st.	machinist
KEEFE, JAMES	455	Lawrence st.	barber
KEEGAN, THOMAS	37	Alder st.	watchman
KEEGAN, THOMAS M.	20	Ellsworth st.	janitor
KELLEY, HENRY F.	7	Richmond st.	machinist
KELLEY, JOHN A.	58	West Third st.	painter
KELLEY, JOHN F.	11	Burnside st.	carpenter
KELLEY, WILLIAM A.	799	Princeton st.	merchant
KENNEDY, DANIEL	2 rear 42	Keene st.	mattress maker
KENNEDY, JAMES J.	31	Marion st.	barber
KENNEDY, WILLIAM R.	114	Warwick st.	electric trimmer
KENNESON, HARRY A.	70	Rock st.	blacksmith
KENNEY, ROBERT E.	1	West View st.	clerk
KERWIN, EDWARD D.	36	Royal st.	steam fitter
KEYES, CHARLES F.	79	Sherman st.	real estate
KEYES, HENRY F.	372	Broadway	gentleman
KEYES, HENRY J.	322	Merrimack st.	clerk

K

KEYES, JULIAN B.	102	Third st.	bank teller
KIDDER, AMASA N.	24	Hastings st.	stone cutter
KIDDER, CHARLES F.	1	Spaulding st.	clerk
KIERNAN, PATRICK	35	Ludlam st.	loom fixer
KILBRIDE, PATRICK	14	Stanley st.	retired
KILPATRICK, JOHN	107	South Loring st.	carpenter
KILLPARTRICK, SAMUEL W.	1057	Middlesex st.	fruit dealer
KIMBALL, LEROY S.	50	Kirk st.	roll coverer
KING, FRANCIS T.	69	Chestnut st.	clerk
KING, JOHN C.	219	E. Merrimack st.	clerk
KINGSBURY, ALPHEUS R.	36	C st.	blacksmith
KINGSBURY, JOHN M.	1087	Bridge st.	provision dealer
KINNEY, EDWIN E.	108	Westford st.	dentist
KIRBY, CHARLES P.	16	Walnut st.	machinist
KITTREDGE, ABNER L.	101	Myrtle st.	merchant
KNAPP, HORACE H.	292	High st.	agent
KNOWLTON, HARRY W.	95	Harvard st.	clerk
KNUTSON, GUSTAF A.	rear 47	South Whipple st.	boots and shoes

L

LABATTE, JOSEPH	72	Cabot st.	tailor
LACOUTURE, JOSEPH S.	51	Rock st.	clerk
LAFLEUR, FREDERICK	130	Aiken st.	barber
LAGASSE, SIMEON	335	Hildreth st.	real estate
LAKE, JOSEPH G.	53	Branch st.	barber
LA MOUREAUX, ANSELME	13	Second av.	tailor
LANDERS, WILLIAM H.	397	Dutton st.	overseer
LANE, STEPHEN H.	4	Pine st.	carpenter
LANE, WILLIAM J.	31	Myrtle st.	letter carrier
LANGEVIN, FELIX D.	34	Pine Hill st.	machinist
LANOUE, EMERY	230	Riverside st.	carpenter

L

LARRABEE, GEORGE C.	15	Corner st.	clerk
LAMOUREUX, FREDERICK A....	52	Mammoth Road	clerk
LAMSON, NATHAN P.	11	Porter st.	clerk
LAMSON, WILLIAM S.	227	Nesmith st.	mfgr.
LANE, WILLIAM F.	318	Central st.	bookkeeper
LANG, ARTHUR W.	16	Lipton st.	carpenter
LANNAN, DENNIS H.	180	Merrimack st.	manager
LATOUR, PETER	15	Gershom av.	baker
LAVERY, JAMES A.	238	Pine st.	baker
LAVOIE, ARTHUR	141	Aiken st.	grocer
LAWRENCE, ABBOTT	53	Berkley av.	optician
LEAHEY, WILLIAM F.	180	Concord st.	weaver
LEARY, DENNIS J.	786	Broadway	insurance
LEARY, JOHN F.	410	Adams st.	clerk
LEARY, SANFORD P.	54	Lincoln st.	carpenter
LEAVITT, GEORGE E.	217	Westford st.	foreman
LEBLANC, ALFRED	89	Mammoth Road	grocer
LEE, BERNARD F.	37	Clark st.	laborer
LEE, MICHAEL A.	48	Bartlett st.	carpenter
LEE, THOMAS C.	455	High st.	insurance
LEITH, NOMAN	35	London st.	blacksmith
LELAUCHEUR, JAMES	322	Salem st.	real estate
LENNON, THOMAS E.	84	Mt. Washington st.	liquor dealer
LEWIS, EDWARD J.	40	Abbott st.	machinist
LEWIS, FRED O.	47	Oakland st.	clerk
L'HEUREUX, JOSEPH H.	33	Bowers st.	ins. agent
LIBBEE, GEORGE F.	58	Wannalancit st.	trader
LIBBY, CHARLES F.	69	Robbins st.	manager
LIBBY, DAVID D.	162	Sanders av.	contractor
LIDDELL, ANDREW	25	Twelfth st.	collector
LISTON, JAMES	368	Concord st.	machinist
LITTLE, JAMES C.	62	Middlesex st.	janitor
LITTLE, MOSES	77	Mansur st.	merchant
LIVINGSTON, CORNELIUS S. ..	208	Branch st.	clerk

L

LIVINGSTON, WILLIAM	20	Chelmsford st.	clerk
LONG, OSMOND	239	Moore st.	book binder
LORRAIN, WILFRED C.	35	Puffer st.	pressman
LOVE, JOSEPH	17	McKinley av.	clerk
LOZO, NAPOLEON	119	Ford st.	clerk
LUNDBERG, FRANK G.	44	Fay st.	laundryman
LYMAN, JOHN A.	98	Hastings st.	clerk
LYNCH, ANDREW J.	449	Middlesex st.	manufacturer
LYNCH, THOMAS J.	93	Andrews st.	laborer
LYNCH, THOMAS J.	31	Crowley st.	clerk
LYFORD, ALFRED E.	295	Central st.	civil engineer
LYONS, JOHN K.	7	Westford st.	pin maker

M

MACK, MARTIN T.	18	Lenton ct.	lunch cart
MADIGAN, MICHAEL A.	23	Bassett st.	marble polisher
MAGEE, JOHN J.	359	Lawrence st.	grocer
MAGUIRE, HENRY J. JR.	31	Walker st.	clerk
MAGUIRE, TMOAS F.	22	Varney st.	advertising agent
MAHONEY, JOHN J.	244	Concord st.	printer
MAHONEY, JOHN P.	41	Butterfield st.	assessor
MAKER, WILLIAM P.	385	Worthen st.	machinist
MANCHESTER, JOHN	18	Livermore st.	janitor
MANSEAU, J. CALIXTE	172	School st.	merchant
MANSFIELD, GEORGE F.	306	Wilder st.	book binder
MASON, EDWARD S.	1	Boyles ct. South st.	compositor
MANSUR, WILLIAM L.		Clitheroe st.	tanner
MARDEN, PHILIP S.	11	Fairview st.	editor
MARDEN, ROBERT F.	42	Huntington st.	ins. agt.
MARKHAM, MICHAEL J.	142	Chapel st.	dealer
MARSHALL, JAMES G.	1067	Gorham st.	paymaster

M

MARTIN, EDWARD F.	543	Gorham st.	grocer
MARTIN, WILLIAM F.	26	North st.	tailor
MAY, CHARLES H.	963	Middlesex st.	electrician
MAY, WILLIAM L.	202	Central st.	clerk
MAYBERRY, SOLOMON S.	54	Jenness st.	carpenter
MAYNARD, MYRON A.	53	London st.	overseer
McALEER, MICHAEL	29	Chestnut st.	operative
McALoon, ANDREW	190	Perry st.	merchant
McALVIN, HENRY J.	40	Sixth st.	watchman
McALoon, JOHN B.	87	Pleasant st.	weaver
McARDELL, EDWARD	50	West st.	machinist
McCAFFREY, JOHN H.	191	Pleasant st.	weaver
McCAFFREY, JOHN F.	247	School st.	carpet weaver
McCAFFREY, FRANCIS E. 6 rear	230	Fayette st.	operative
McCAFFREY, THOMAS	36	Davidson st.	operative
McCAFFREY, THOMAS J.	533	Lawrence st.	painter
McCANN, ARTHUR	9	New st.	insurance agt.
McCANN, JAMES	3 rear	224 Ludlam st.	mule spinner
McCANN, PATRICK	412	Lincoln st.	laborer
McCARTHY, CHARLES E.	880	Bridge st.	clerk
McCARTHY, JAMES F. JR.	28	Butterfield st.	dealer
McCARTHY, JOHN J.	244	Broadway	clerk
McCARTHY, JOHN P.	15	Fay st.	laborer
McCARTHY, THOMAS	13	Harrison st.	musician
McCLUSKY, WILLIAM J.	40	Union st.	student
McCORMACK, VINCENT W.	23	Fourth av.	pilot
McCORMICK, JOHN E.	108	Livingston av.	clerk
McCORMICK, PATRICK	8	Union st.	laborer
McCULLOUGH, JOHN	33	Chestnut st.	grocer
McDANIELS, WALTER H.	437	East Merrimack st.	manufacturer
McDONALD, JOSEPH A.	402	Mammoth road	merchant
MacDOUGAL, JAMES	1019	Central st.	machinist
McELHOLM, DANIEL B.	117	Andover st.	weaver
McELHOLM, WILLIAM H.	117	Andover st.	plumber
McELROY, JOHN	305	Fairmount st.	conductor

M

McEVOY, PATRICK	109	Powell st.	painter
McGARRAHAN, JAMES	18	Hurd st.	machinist
McGAUVRAN, WILLIAM H.	859	Bridge st.	clerk
McGILLY, PATRICK	112	Concord st.	wool sorter
McGLINCHEY, JEREMIAH	48	Chapel st.	clerk
McGRATH, JOHN	26	Cedar st.	printer
McGRATH, JOSEPH H.	88	Coburn st.	janitor
McGUINNESS, JAMES F.	119	Agawam st.	plumber
McHUGH, PATRICK B.	184	South st.	printer
McINTIRE, GEORGE E.	605	Wilder st.	machinist
McINTYRE, WILLIAM G.	19	Lombard st.	clerk
McINTOSH, GEORGE A.	201	Wilder st.	overseer
MacKENZIE, DANIEL W.	198	Pine st.	clerk
McKEON, ANDREW S.	22	Robinson st.	clerk
McKEON, JAMES E.	184	Chelmsford st.	clerk
McKILLOP, CLYDE	11	Laurel st.	operative
McKINLEY, JOHN	50	Elm st.	clerk
McLAUGHLIN, JOHN F.	151	West Sixth st.	steam fitter
McLAUGHLIN, JOHN T.	229	Stackpole st.	confectioner
McMAHON, FRANK	539	Chelmsford st.	machinist
McMAHON, JOSEPH F.	rear 136	South st.	plumber
McMAHON, PETER	39	Carter st.	bleachery employee
McMAHON, PETER E.	118	Bartlett st.	clerk
McMAHON, THADY	11	Watson st.	barber
McNABB, JAMES S.	106	Pleasant st.	laundry
McNABB, JOHN H.	108	Pleasant st.	laundry
McNALLY, JAMES	261	Thorndike st.	blacksmith
McNALLY, JAMES R.	121	South Highland st.	conductor
McOSKER, HUGH C.	209	Stackpole st.	paper hanger
McPARLAND, JOHN	73	Union st.	spinner
McQUADE, ARTHUR F.	65	Pleasant st.	foundry foreman
McQUADE, JOHN J.	40	Lyon st.	clerk
McQUADE, MICHAEL	65	Pleasant st.	overseer
McQUESTEN, ALBERT W.	118	D st.	clerk
MvVEY, DANIEL F.	135	Gorham st.	plumber

M

MEAD, ASA W.	3	Wachusett st.	machinist
MEADE, WILLIAM V.	247	Gorham st.	clerk
MEALEY, JOHN R.	172	Howard st.	stencil cutter
MEEHAN, JOHN F.	224	Worthen st.	clerk
MELLEN, JOSEPH H.	51	Wamesit st.	clerk
MELLO, MANUEL P.	33	Powell st.	hairdresser
MELLOR, GEORGE H.	366	Westford st.	machinist
MELOY, WILLIAM J.	9-51	Brookings st.	stenographer
MERCIER, LOUIS	14	Ward st.	watch maker
MERRILL, CHARLES S.	1	Osgood st.	salesman
MERRILL, FRANK M.	156	Tenth st.	dealer
MEYER, WOLF	60	Queen st.	tailor
MILLER, GEORGE W.	75	Howard st.	railroad
MILLER, HENRY	38	Sixth st.	real estate
MILLER, JOSEPH	21	Loring st.	clerk
MILLER, JOSEPH H.	284	Fletcher st.	clerk
MISKELLA, JAMES F.	35	Mead st.	clerk
MITCHELL, CHARLES F.	343	Market st.	clerk
MITCHELL, JAMES W.	79	Mt. Washington st.	carpenter
MOLLOY, ANDREW	130	Mt. Hope st.	beamer
MONAHAN, PATRICK R.	38	West Fifth st.	teamster
MONETTE, JOSEPH H.	186	Aiken av.	clerk
MONGEAU, GEORGE E.	444	Fletcher st.	merchant
MONGRAIN, WILBROD	23	Sarah av.	blacksmith
MOODY, GEORGE H.	43	South Canton st.	clerk
MOONEY, PATRICK O.	203	Moore st.	plumber
MOORE, PATRICK H.	21	Carter st.	gentleman
MOREY, FRANK L.	73	Sixth st.	carpenter
MORIN, JOSEPH U.	812	Merrimack st.	butter dealer
MORRISEY, FRANK T.	46	Albion st.	janitor
MORSE, EDWARD H.	785	Broadway	livery stable
MORSE, ROBERT A.	347	Dutton st.	shipper
MOTLEY, GEORGE S.	95	Nesmith st.	gentleman
MULDOON, THOMAS	427	Lincoln st.	piper
MULLANEY, JOHN J.	505	Fletcher st.	plumber

M

MUNN, FRANCIS D. JR.	151	Methuen st.	grocer
MURLAND, JAMES	313	High st.	foreman
MURKLAND, WALTER E.	313	High st.	clerk
MURPHY, FRANK B.	348	Wilder st.	real estate
MURPHY, JAMES A.	82	Hanks st.	overseer
MURPHY, JEREMIAH F.	165	Mt. Hope st.	clerk
MURPHY, JOHN D.	138	Cross st.	operative
MURPHY, JOHN H.	235	Hale st.	painter
MURPHY, MATHEW	280	East Merrimack st.	carpenter
MURPHY, RICHARD F.		Merrimack House	manager
MURPHY, WILLIAM W.	51	Pine st.	dealer
MURRAY, FRANK	86	Fourth av.	blacksmith
MUZZEY, WALTER L.	25	Fort Hill av.	salesman
MYERS, WILLIAM	12	Barrington st.	overseer

N

NAY, HOMER, B.	382	Worthen st.	engineer
NEALE, ELISHA J.	349	Beacon st.	merchant
NELSON, CLARENCE H.	91	Mansur st.	carpenter
NESMITH, JOSEPH A.	229	Andover st.	gentleman
NESTOR, ATRICK F.	9	Alder st.	janitor
NEWHALL, HENRY L.	235	Mammoth road	paymaster
NICHOLS, ELIJAH M.	23	Hamilton corp.	boarding house
NICKERSON, DAVID H.	9	Wachusett st.	merchant
NOLAN, JOHN	844	Central st.	dealer
NORCROSS, NICHOLAS G.	69	Huntington st.	insurance agent
NUTTALL, GEORGE W.	305	Summer st.	clerk

O

O'BRIEN, JOHN J.	107	High st.	wool sorter
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O

O'BRIEN, JOHN J.	399	Worthen st.	second hand
O'BRIEN, PATRICK	175	Broadway	laborer
O'CONNELL, JOHN J.	61	Newhall st.	liquor dealer
O'DONNELL, CONSTANTINE ...	43	Wannalancit st.	merchant
O'DWYER, JEREMIAH J.	148	Midland st.	conductor
O'CONNOR, MAURICE	635	Market st.	laborer
O'CONNOR, MICHAEL J.	900	Gorham st.	stone cutter
O'HARE, FRANK	29	Bassett st.	laborer
O'HARE, JAMES	27	Ellsworth st.	teamster
O'HARE, JOHN P.	167	Warren ct.	weaver
O'HEARN, PATRICK	282	Riverside st.	contractor
O'HEIR, OCTAVIEN G. I.	68	Lane st.	merchant
OLIVER, JOHN	179	Varnum av.	florist
O'MEARA, MARTIN	rear 55	Cedar st.	dealer
O'NEIL, PATRICK E.	22	Whipple st.	clerk
O'ROURKE, PATRICK J.	70	Walker st.	laborer
ORT, JOHN J.	18	Broadway	blacksmith
O'SHEA, MICHAEL	213	Concord st.	machinist
OSTERHOUT, FRED S.	159	Middlesex st.	livery
O'SULLIVAN, HUMPHREY ...	105	Butterfield st.	shoe dealer
O'SULLIVAN, JAMES	105	Mt. Washington st.	shoe dealer
OWEN, GEORGE E.	156	Andover st.	accountant

P

PAGE, DUDLEY L.	n. s	Whitehead av.	caterer
PAIGE, CHARLES D.	45	Thirteenth st.	auditor
PALMER, CHARLES D.	129	Fairmount st.	Gentleman
PALMER, FORREST E.	25	Osgood st.	clerk
PALMER, SAMUEL B.	394	Beacon st.	grocer
PARADIS, J. HORACE	5-200	French st.	clerk
PARADIS, ROBERT C.	200	French st.	reporter

P

PARENT, ALCIDE A.	896	Moody st.	clerk
PARENT, J. GEDEON	68	Cabot st.	hair dresser
PARK, ALBERT S.	28	Riverside st.	clerk
PARKER, ARTHUR W.	306	Pine st.	builder
PARKER, CHARLES A.	13	Second st.	painter
PARKER, NATHAN JR.	20	Grove st.	driver
PARKER, STANLEY M.	712	School st.	clerk
PARKER, WALTER L.	270	Wilder st.	manufacturer
PARTHENAIS, CHARLES H.	514	Moody st.	merchant
PARTHENAIS, DAVID A.	30	Phillips st.	merchant
PARTHENAIS, WILLIAM A.	16	Grand st.	dealer
PATTEE, ARTHUR M.	41	Nicholls st.	railroad
PEABODY, FRANK B.	23	Columbus av.	clerk
PEABODY, MORTON N.	161	Mt. Vernon st.	merchant
PEABODY, ORVILLE W.	698	School st.	watchman
PEARSON, FRED H.	255	Foster st.	boots and shoes
PEARSON, GEORGE F.	347	Westford st.	inventor
PEARSON, HARRIS C.	19	Seventh av.	baker
PEASE, MARK M.	159	Smith st.	musician
PELTIER, MERIL	130	Avon st.	confectioner
PENDERGAST, JOHN H.	95	Dummer st.	stone cutter
PENN, CHARLES A.	227	West London st.	carpenter
PENN, WILLIAM HENRY	262	London st.	contractor & bullder
PEPPARD, PATRICK S.	43	Blossom st.	loom fixer
PERRON, JOSEPH	470	Moody st.	hairdresser
PERSON, NILS	82	London st.	carpenter
PERSONS, ALBERT C.	629	Westford st.	roll coverer
PETERS, WILLIAM B.	16	Bryant st.	Gas Co.
PETERSON, GEORGE W.	37	So. Loring st.	ins. agent
PEVEY, FRANKLIN S.	68	Dover st.	iron founder
PEVEY, JAMES A.	366	Walker st.	iron founder
PINDER, ALBERT	rear 239	Fairmount st.	gentleman
PICKERING, H. EDWARD	4	Bertram st.	asst. supt.
PICKERING, SAMUEL A.	34	Hastings st.	carpenter
PRESTON, CHARLES R.	335	Thorndike st.	civil engineer

P

PIERCE, ABNER K.	419	Chelmsford st.	painter
PIHL, CARL G. A. F. W. E.	45	Fay st.	engineer
PILLING, HERBERT	44	Harvard st.	shoe manufacturer
PILLING, JOHN B.	1199	Middlesex st.	shoe manufacturer
PINAULT, EDMUND J.	1	Ready av.	carriage painter
PINAULT, ZEPHIRIN R.	97	Whitney av.	salesman
PINDER, JOHN J.	159	Broadway	clerk
PINDER, ALBERT L.	64	Chapel st.	carpenter
PINGREE, HERBERT W.	196	School st.	carpenter
POLLARD, ARTHUR G.	110	Mansur st.	merchant
POLLARD, HARRY G.	96	Mansur st.	merchant
POTTER, WILLIAM H.	251	Gibson st.	clerk
POWERS, JOHN	169	Broadway	laborer
POWERS, JOHN T.	52	Claire st.	hair dresser
PRESCOTT, DUDLEY M.	23	Oak st.	plasterer
PRESTON, JAMES F.	246	Andover st.	manager
PRINCE, ARTHUR D.	5	Simpson st.	news dealer
PRINCE, GEORGE C.	5	Simpson st.	picture framer
PROCTOR, FRED W.	57	Walker st.	job express
PURCELL, JOSEPH A.	123	Lakeview av.	machinist
PUFFER, FRED A. A.	13	Dover st.	dealer
PUFFER, FREEMAN W.	82	Warwick st.	confectioner
PUFFER, STEPHEN B.	942	Middlesex st.	manufacturer
PURCELL, WILLIAM C.	81	Sherman st.	clerk
PUTNAM, ADDISON, JR.	194	Nesmith st.	merchant
PUTNAM, FRANK E.	1210	Middlesex st.	restaurant
PUTNAM, FRANK H.	12	Marlborough st.	clerk

Q

QUEENAN, EUGENE C.	54	Pond st.	clerk
QUILL, FRANK, JR.	137	Congress st.	laborer
QUINN, JOHN J.	433	Worthen st.	operative

Q

QUINN, MICHAEL	14	Fort Hill av.	woolen weaver
QUINN, THOMAS F.	153	High st.	operative
QUINN, THOMAS F.	511	Lawrence st.	steam fitter
QUIRBACH, HENRY	142	Gorham st.	merchant
QUIRK, WILLIAM	185	Adams st.	operative

R

RAFFERTY, MICHAEL T.	36	Cedar st.	hackman
RAMSDELL, DANIEL W.	94	D st.	teamster
RAND, GEORGE W.	257	Walker st.	salesman
RANDLETT, FRED M.	8	Gates st.	fish dealer
READ, WILLIAM A.	228	Liberty st.	salesman
READY, DAVID E.	774	Broadway	grocer
REARDON, MICHAEL D.	516	Lawrence st.	clerk
REARDON, PATRICK	rear 95	Dummer st.	fireman
REDDING, DANIEL	45	Adams st.	jobbing
REDMOND, EDWARD L.	3	Masterson's yd.	clerk
REDMOND, JAMES J.	3	Masterson's yd.	loom-fixer
REED, FRANK T.	1096	Bridge st.	fireman
REID, WILLIAM	7	Calvin st.	weaver
REIDY, MARTIN H.	172	School st.	manager
REILLY, JOHN J.	130	Coburn st.	weaver
REINSTIERNA, TORSTER	43	Sidney st.	wool sorter
RENAUD, SAMUEL, JR.	602	Middlesex st.	dealer
REYNOLDS, BERNARD	174	Fourth av.	barber
RHODES, BENJAMIN	12	Oak st.	wool sorter
RICHARDS, LYMAN H.	3	Ward pl., Fletcher st.	carpenter
RICHARDS, EDWARD S.	794	Merrimack st.	clerk
RICHARDSON, ALBERT J.	161	Hildreth st.	shuttle maker
RICHARDSON, EDWARD J.	40	Lincoln st.	clerk
RICHARDSON, HARRY T. B.	365	Beacon st.	baker

R

RICHARDSON, HENRI E.	1460	Middlesex st.	clerk
RICHARDSON, WILLIAM W.	7	Willie st.	grocer
RIDDICK, HERBERT C.	201	Smith st.	clerk
RILEY, CHARLES	65	Chestnut st.	barber
RILEY, JOHN	110	Lewis st.	laborer
RILEY, PHILIP, JR.	124	High st.	upholster
RIORDAN, PATRICK H.	58	Second av.	machinist
ROACH, HENRY A.	58	Worthen st.	superintendent
ROARK, ANDREW F.	455	Market st.	blacksmith
ROARK, MILES	28	Lyon st.	insurance agent
ROBERT, ARTHUR R.	33	Fifth av.	clerk
ROBERT, VITAL	33	Fifth av.	real estate
ROBINSON, HENRY O.	34	Webster st. ..	boarding house keeper
ROGERS, JOHN F.	29	Cedar st.	undertaker
ROGERS, PATRICK	26	Cedar st.	undertaker
ROLLINS, WINSTON I.	204	Appleton st.	dealer
ROONEY, GEORGE W.	49	Sixth st.	second hand
ROPER, GEORGE A.	335	Walker st.	clerk
ROUNTREE, ALEXANDER E. ...	147	Pleasant st.	clerk
RUSHWORTH, WALTER	333	Dutton st.	electrician
ROUSSEAU, DONAT	195	Salem st.	shoemaker
ROUSSEL, MARCEL	77	Ludlam st.	butcher
ROUSSIN, EUGENE	3	Salem st.	editor
ROWLANDSON, WILLIAM E. ...	203	Pleasant st.	dyer
ROY, JOSEPH G.	10	Dane st.	operative
RUNELS, CHARLES	321	Thorndike st.	contractor
RUNELS, GEORGE H.	240	Gibson st.	clerk
ROSHWORTH, CHARLES B. ...	58	South Loring st.	agent
RUSSELL, ASA C.	331	Wilder st.	manufacturer
RUSSELL, CYRUS W.	115	Mt. Vernon st.	grocer
RUSSELL, EUGENE G.	226	Gibson st.	real estate
RUSSELL, JOHN L.	17	Victoria st.	manager
RYAN, ALBERT J.	117	Stevens st.	real estate

S

SADLER, JOHN A.	171	Chapel st.	laborer
SALMON, ARTHUR F.	20	Loring st.	salesman
SALMON, EDWARD A.	186	School st.	overseer
SANBORN, EDWARD P.	79	Royal st.	builder
SANBORN, FRED W.	44	Fred st.	carpenter
SANBORN, WALTER E.	79	Royal st.	clerk
SARGENT, ALEXIS D.	29	Hanks st.	clerk
SARGENT, GEORGE A.	49	Andover st.	operative
SARGENT, WILLIAM A.	78	First st.	motorman
SAUNDERS, ARTHUR W.	94	Twelfth st.	manufacturer
SAUNDERS, FRANCIS E.	119	Middlesex st.	overseer
SAUNDERS, JOHN J.	167	School st.	plumber
SAUNDERS, ORLANDO	87	Nesmith st.	agent
SAUNDERS, THOMAS A.	522	Merrimack st.	undertaker
SAVAGE, PETER H.	78	Mt. Washington st.	undertaker
SAVALLEY, ARTHUR	65	French st.	laborer
SAWYER, ORRIN A.	134	Walker st.	inventor
SCANNELL, BARTHOLOMEW ..	535	Westford st.	boiler maker
SCANNELL, CORNELIUS	62	Cambridge st.	boiler maker
SCOTT, FRANK	54	Hampshire st.	overseer
SCOTT, GEORGE N.	238	Chelmsford st.	wood turner
SCOTT, JAMES	176	School st.	gentleman
SCOTT, SAMUEL	30	Cabot st.	dealer
SCOTT, WILLIAM	85	French st.	clerk
SCRIBNER, GEORGE A.	158	Westford st.	machinist
SENDER, WILLIAM F.	238	Cabot st.	overseer
SHADDUCK, EDWIN D.	19	Columbus av.	merchant
SHANNESSY, GEORGE W.	180	Grand st.	wheelwright
SHARROW, FREDERICK S.	16	Walnut st.	tailor
SHAW, EDWIN T.	63	Dover st.	asst. treasurer
SHAW, FRANCIS E.	698	Westford st.	gentleman
SHEA, JAMES A.	22	Bleachery st.	plasterer
SHEA, JOHN E.	28	Butler av.	currier
SHEDD, FREEMAN B.	396	Andover st.	manufacturer
SHEEHY, JAMES	66	Andover st.	dealer

S

SHEPARD, CHARLES S.	254	Parkview av.	machinist
SHEPHERD, ROBERT J.	82	Fort Hill av.	B. & M. R. R.
SHERMAN, ARTHUR W.	339	Westford st.	clerk
SHERMAN, LEONARD F.	148	Princeton st.	manufacturer
SHERWELL, WILLIAM M.	2	Barton av.	superintendent
SHERWOOD, EDWIN L.	11	Columbus av.	overseer
SHERWOOD, FRANK J.	79	Vernon st.	glue manufacturer
SHIELDS, WILLIAM H.	627	Chelmsford st.	weaver
SILVER, FRED W.	94	South Loring st.	machinist
SIMPSON, JOHN A.	67	Methuen st.	contractor
SLATER, JOSEPH F.	611	Wilder st.	gentleman
SMART, CHARLES E.	104	D st.	grocer
SMITH, CALEB L.	878	Chelmsford st.	grocer
SMITH, CHARLES P.	314	Nesmith st.	gentleman
SMITH, CHESTER F.	270	Gibson st.	salesman
SMITH, ETHAN A.	84	Marlborough st.	real estate
SMITH, FREDERICK A.	13	Kinsman st.	laborer
SMITH, HENRY	261	Fayette st.	barber
SMITH, LORENZO E.	122	Mammoth road	bookkeeper
SMITH, WILLIAM J.	12	Fulton st.	laborer
SNOW, SAMUEL E.	89	School st.	mason
SOUTHAM, BROOK	13	Cambridge pl.	shipper
SOUTHWORTH, WILLIAM S.	80	Mansur st.	mill agent
SPALDING, EDWARD F.	39	Tyler st.	gentleman
SPALDING, WILLIAM B.	1	Center st.	real estate
SPALDING, WILLIAM H.	86	Thorndike st.	merchant
SPEAR, FREDERICK A.	576	Westford st.	agent
SPICER, FRANK M.	352	Wilder st.	electric railway
SPEIRS, JAMES A.	23	Phillips st.	pattern maker
SPROAT, FRANK E.	57	Claire st.	operative
STACEY, DUANE P.	75	Beacon st.	clerk
STACK, FRANK P.	81	West Third st.	painter
STAFFORD, EBEN B.	301	Mammoth road	merchant
STANLEY, HARRY L.	22	Hoyt av.	coal dealer
STANTON, JOHN B.	23	Newhall st.	woll sorter

S

STAPLES, GEORGE N.	559	Chelmsford st.	clerk
STEPHENS, SAMUEL G.	47	South Walker st.	draughtsman
STEVENS, ALMON P.	43	Hildreth st.	sexton
STEVENS, CHARLES M.	102	First st.	engraver
STEVENS, C. BROOKS	403	Andover st.	treasurer
STEVENSON, FINDLAY	45	Princeton st.	clerk
STEWART, JOHN W.	45	Thirteenth st.	plumber
STICKNEY, FREDERICK W.	53	Third st.	architect
STILES, ALBA G.	72	Varney st.	retired
STIMPSON, WALTER W.	441	Dutton st.	machinist
ST. JEAN, GILLAUME	115	Aiken st.	clerk
STOCKS, HARRY	141	Parkview av.	bookkeeper
STOPHERD, ALBERT	10-76	Congress st.	second hand
STOTT, CHARLES W.	173	Nesmith st.	manufacturer
STOTT, CHARLES A.	173	Nesmith st.	manufacturer
STOTT, JOHN W.	36	Marlborough st.	accountant
STOTT, THOMAS	282	Pawtucket st.	manufacture
STOUGHTON, WILLACE H.	162	Powell st.	job express
STURTEVANT, Z. WINCHELL ..	94	Fort Hill av.	druggist
STOWELL, CHARLES H.	99	Fairmount st.	J. C. Ayer
STOWELL, FRANK E.	179	Foster st.	undertaker
STRATTON, JOHN S.	41	Royal st.	trader
SULLIVAN, CORNELIUS	180	Broadway	barber
SULLIVAN, CORNELIUS F.	215	Stackpole st.	barber
SULLIVAN, DANIEL F.	95	Andrews st.	dealer
SULLIVAN, DENNIS A.	578	Market st.	piper
SULLIVAN, DENNIS A.	164	Wentworth av.	editor
SULLIVAN, FRANK J.	45	Wamesit st.	clerk
SULLIVAN, JAMES F.	318	Adams st.	laborer
SULLIVAN, JOHN J.	171	Chapel st.	painter
SULLIVAN, JOHN J.	181	Mt. Vernon st.	merchant
SULLIVAN, MARTIN W.	16	Lagrange st.	carpenter
SULLIVAN, MICHAEL	rear 353	Lawrence st.	operative
SULLIVAN, MICHAEL E.	330	Concord st.	barber
SULLIVAN, THOMAS A. D.	762	Broadway	grocer

S

SUTCLIFFE, WILLIAM T.	1	Runnels pl.	music teacher
SWAN, ALBERT J.	23	Congress av.	clerk
SWANTON, ALBION F.	236	Parkview av.	superintendent
SWEATT, ALBION	62	Eighteenth st.	carpenter
SWEATT, ELLSWORTH E.	432	Hildreth st.	carpenter
SYLVESTRE, JAMES O.	27	James st.	clerk

T

TAFT, HERBERT O.	22	Burt st.	clerk
TAFF, RICHARD	266	Appleton st.	manufacturer
TALBOT, HARRY L.	15	Fairview st.	salesman
TANSEY, JOHN F.	63	Bartlett st.	coachman
TARR, EUGENE J.	242	Branch st.	salesman
TAYLOR, GEORGE A.	337	High st.	caterer
TAYLOR, GEORGE H.	41	Nichols st.	stable keeper
TAYLOR, LUKE B.	8	Wachusett st.	weaver
TEWKSBURY, CHARLES S.	352	Walker st.	machinist
THATCHER, WILLIAM H.	90	South Whipple st.	mill operative
THERIAULT, FREDERICK	9	Mt. Grove st.	machinist
THOMPSON, HENRY M.	298	Pawtucket st.	manufacturer
THOMPSON, JAMES	68	Grove st.	box mfr.
THOMPSON, JOHN	51	Concord st.	dyer
THOMPSON, WILLIAM M.	3	Bachelor pl.	ice man
THORNE, JOHN JR.	15	Fernald st.	clerk
THORNTON, CHARLES E.	26	Ames st.	janitor
THORNTON, JOSEPH B.	22	William st.	laborer
TIGHE, FREDERICK F.	72	South st.	clerk
TIGHE, JOHN	75	Worthen st.	operative
TILTON, CHARLES E.	103	South Walker st.	compositor
TILTON, FREDERICK N.	57	South Walker st.	printer
TIMMONS, FREDERICK J.	959	Middlesex st.	clerk

T

TIMMONS, HARRY L.	959 Middlesex st.	druggist
TINCKER, CLARENCE C.	6 Astor st.	clerk
TRUE, MITCHELL C.	606 Westford st.	clerk
TURCOTTE, HOMER L. P.	526 Moody st.	janitor
TURCOTTE, LOUIS P.	22 Riverside st.	dealer
TURCOTTE, LUCIEN F. L.	22 Riverside st.	clerk
TURGEON, LOUIS G.	386 Fletcher st.	druggist
TURNER, CLARKSON H.	23 Perrin st.	Gas Co.
TURNER, JOHN D.	42 Columbus av.	machinist
TUTTLE, CLINTON P.	584 School st.	clerk
TYRRELL, JOHN E.	483 Lawrence st.	dealer

U

URANN, CHARLES F.	408 Lincoln st.	foreman
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V

VARNEY, EDWARD S.	20 Ash st.	printer
VARNEY, GEORGE E.	459 Dutton st.	machinist
VARNUM, CHARLES F.	75 Smith st.	carpenter
VARNUM, DANIEL H.	697 Bridge st.	real estate
VAUGHN, PATRICK P.	14 Leverett st.	plumber
VIGEANT, PAUL	20 Dodge st.	hay and grain
VIGEANT, TIMOTHEE	112 Genoa av.	grocer
VIGNEAULT, EDMUND J.	476 Moody st.	clerk
VINCELETTE, EDOUARD	195 Ludlam st.	musician
VINCENT, JOHN	94 Ford st.	provisions
VINING, ALONZO H.	27 Eighth av.	carpenter
VINING, HIRAM	36 Fourth av.	carpenter

W

WADLEIGH, JUDE C.	305	Andover st.	superintendent
WAHLGREN, CARL A.	134	Gorham st.	cigar maker
WALSH, JAMES P.	164	Coburn st.	plastrer
WALKER, JOHN J.	43	French st.	elevator
WALKER, ROGER L.	80	Chestnut st.	electrician
WALKER, THOMAS C.	80	Chestnut st.	druggist
WALLACE, EUGENE C.	1	Manahan st.	engineer
WALLACE, TIMOTHY J.	17	Swift st.	laborer
WALKER, FRANK A.	287	Stevens st.	manager
WALKER, EDWARD C.	236	Chelmsford st.	machinist
WALKER, JAMES F.	43	Seventh st.	overseer
WALSH, ALONZO G.	419	Andover st.	broker
WALSH, JOHN F.	5	Watson st.	operative
WALSH, THOMAS	104	Eleventh st.	superintendent
WALSH, WILLIAM H.	86	Congress st.	dyer
WARBURTON, JOHN	10	Globe Terrace	director
WARREN, CHARLES H.	25	Princeton st.	dealer
WARREN, JEREMIAH F.	27	Cross st.	painter
WARREN, OSCAR E.	222	Worthen st.	operative
WASHBURN, GEORGE B.	179	Humphrey st.	reporter
WATERWORTH, CHARLES R.	78	Otis st.	tool maker
WATSON, GEORGE B.	30	First st.	clerk
WEAVER, FRANK L.	479	Westford st.	roofer
WEBB, ROSCOE W.	206	Cross st.	freight handler
WEBSTER, HERBERT E.	251	Foster st.	salesman
WELCH, FREDERICK F.	466	Fletcher st.	clerk
WELCH, PATRICK F.	539	Lawrence st.	steam fitter
WELCH, RICHARD F.	174	Hale st.	tailor
WELCH, RICHARD F.	537	Lawrence st.	machinist
WELCH, WILLIAM F.	34	Cedar st.	carpenter
WESTWOOD, JOHN S.	10	Simpson pl.	druggist
WHELAN, CHARLES B.	20	Hudson st.	tanner
WHEELER, ALBERT H.	722	Merrimack st.	merchant
WHEELER, RALPH L.	34	Waugh st.	mechanic

W

WHELTON, MATTHEW	283	School st.	clerk
WHIPPLE, SIMON F.	40	Berkley av.	advertiser
WHITCOMB, IRVING	48	South Walker st.	dealer
WHITE, ELMER H.	88	Walker st.	real estate
WHITE, HENRY G.	131	Grove st.	clerk
WHITE, HERBERT R.	80	Livingston av.	salesman
WHITE, WILLIAM T.	72	Belmont av.	manufacturer
WHITTET, FRANK S.	50	Wentworth av.	plumber
WHITTET, CHARLES A.	12	Sidney st.	superintendent
WHITTET, DAVID W.	20	Crowley st.	carpenter
WHITTIER, STEPHEN T.	17	Davenport st.	paymaster
WHITWORTH, ALBERT	31	Sidney st.	clerk
WIGGIN, BURTON H.	1010	Middlesex st.	contractor
WIGGIN, FRANK B.	76	Canton st.	bookkeeper
WIGGIN, ERVIN L.	35	Dover st.	grocer
WILDER, OLIVER D.	6	Coral st.	grain dealer
WILDER, WESLEY M.	6	Coral st.	clerk
WILLMAN, CLARENCE T.	5	Butler av.	operative
WILLIS, WILLIAM T.	35	Ellsworth st.	stone mason
WILLMAN, DAVID, JR.	8	Hale st.	wool sorter
WILLS, GARDNER	15	Hampshire st.	clerk
WILSON, ADDISON	220	Appleton st.	clerk
WILSON, CHARLES V. S.	89	Westford st.	foreman
WILSON, JOHN C.	7	Robinson st.	gentleman
WILSON, JOSEPH M.	22	Seventh av.	butcher
WILSON, SILAS W.	3	Ware st.	paper hanger
WING, CHARLES T.	229	Stevens st.	designer
WINN, JOHN J.	29	South Whipple st.	mattress maker
WIRT, EDWARD R.	163	Andover st.	upholsterer
WOOD, EDWARD N.	184	A st.	insurance
WOOD, GEORGE H.	176	Branch st.	jeweler
WOOD, MILLARD F.	51	Whitney av.	jeweler
WOODIES, FRED	74	Gates st.	clerk
WOODIES, WILLIAM H.	381	Dutton st.	overseer

W

WOODWORTH, HENRY P.	15	Hawthorne st.	lumber dealer
WORTHEN, GEORGE E. JR.	27	Forrest st.	machinist
WOTTON, CHARLES A.	26	Loring st.	laundryman
WRAGG, THOMAS	13	Methuen st.	overseer
WRIGHT, FRANK B.	57	Willow st.	carpenter
WRIGHT, HERBERT A.	27	Warwick st.	clerk
WRIGHT, WALTER G.	27	Osgood st.	machinist
WYMAN, MOSES	62	Middlesex st.	lodging house
WYMAN, RANDALL T.	169	Middlesex st.	boarding house

Y

YORKE, JOSEPH B.	13	Oakland st.	pressman
YOUNG, CHARLES F.	733	Central st.	decorator
YOUNG, JAMES A.	585	Broadway	motorman









